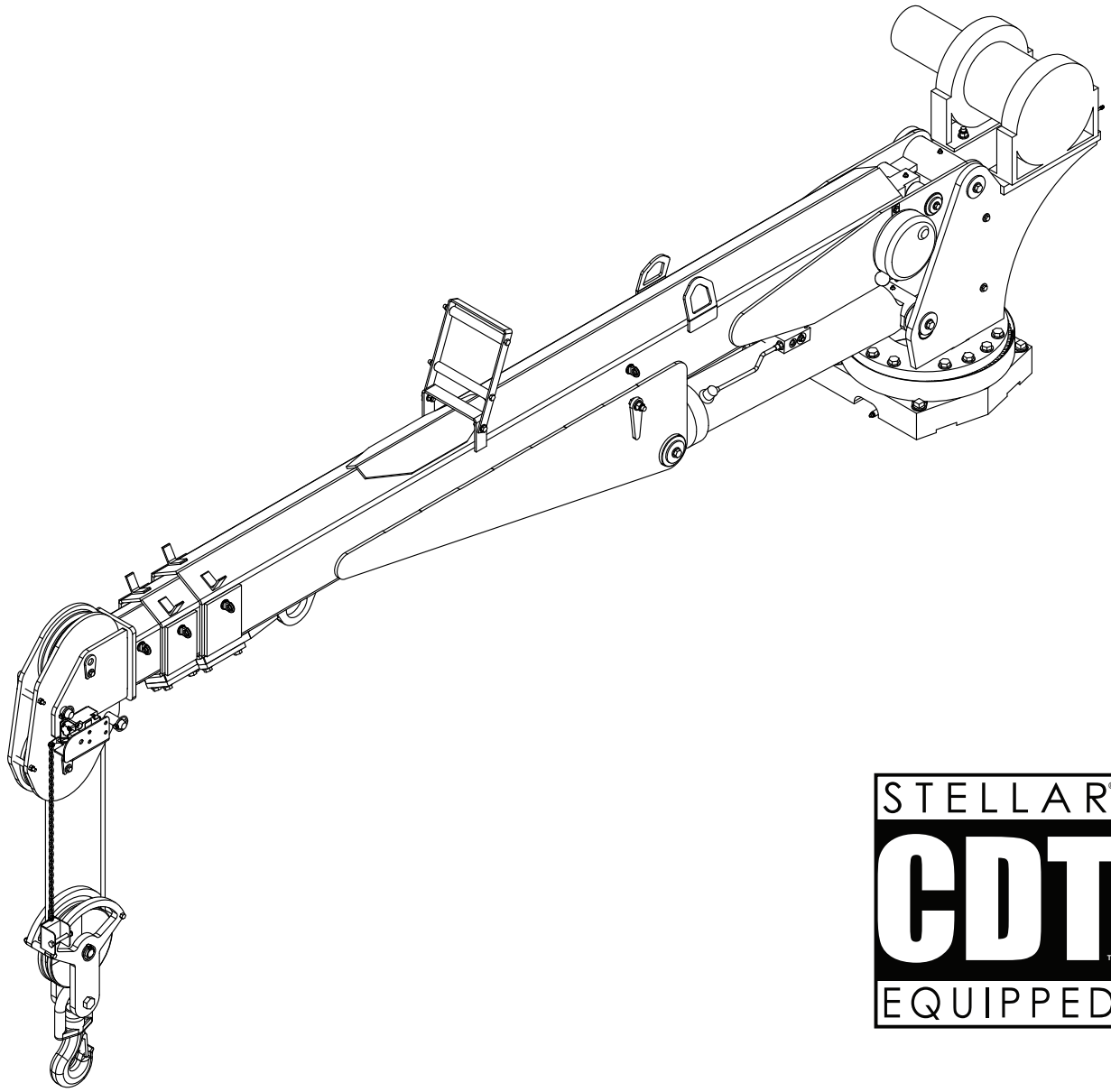
Model 7621
Telescopic Crane Owners' Manual

Installation • Assembly Drawings • Parts



STELLAR® CDT™ EQUIPPED

Stellar Industries, Inc.
190 State Street
PO Box 169
Garner, IA 50438
800-321-3741
Fax: 641-923-2811
www.stellarindustries.com

Subject to Change without Notification.
© 2012 Stellar Industries, Inc.

Last Revision: 09/17/12

7621 Manual Revisions

Date of Revision	Section Revised	Description of Revision
September 15th, 2011	Chapter 2: Installation Chapter 3: Assembly Drawings	New Flip Sheave Design Implemented. Updated Extention Boom Assembly Drawings.

Table of Contents

Chapter 1 - Specifications 1
Capacity Chart - Decal PN 54958 2

Chapter 2 - Installation 3
Installation Overview 4
Control Kit - PN 54952 5
Control Kit (Non-Boost) - PN 55823 6
Hydraulic Kit - PN 52264 7
Valve Bank - PN 52265 8
Hydraulic Installation 9
Winch Case Drain Installation 10
Hydraulic System 11
Stability Procedure 12
Decal Placement - PN 54957 13

Chapter 3 - Assembly Drawings 15
Base Assembly - PN 50364 15
Mast Assembly - PN 54790 16
Main Boom - PN 54941 17
Extension Boom Assembly - PN 61824 18
Extension Boom Assembly - PN 61824 (Expanded) 19
Main Cylinder Assembly - PN 54942 20
Extension Cylinder Assembly - PN 49316 21
Snatch Block Assembly - PN 56266 22
CDT™ Radio Transmitter Assembly - PN 56647 23

Chapter 4 - Replacement Parts 25

Find a Dealer Near You:
http://www.stellarindustries.com/pages/dist/distsearch.htm

For Technical Questions, Information, Parts, or Warranty, Call Toll-Free at
800-321-3741
Hours: Monday - Friday, 8:00 a.m. - 5:00 p.m. CST

Or email at the following addresses:

Technical Questions, and Information	service@stellarindustries.com
Order Parts	parts@stellarindustries.com
Warranty Information	warranty@stellarindustries.com

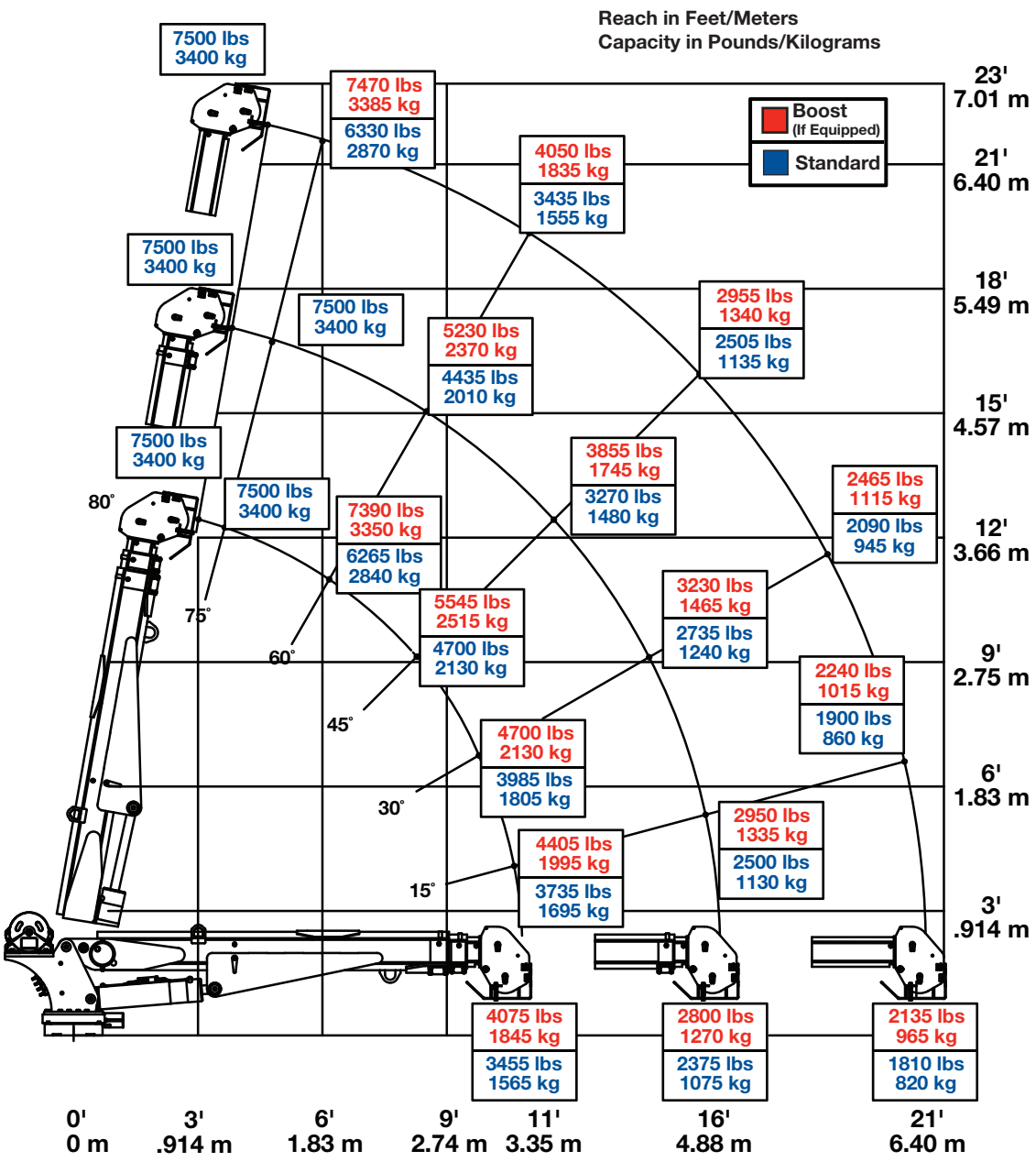
Chapter 1 - Specifications

Model 7621 Crane
SPECIFICATION SHEET

Crane Rating:	38,000 ft-lb (5.25 TM)
Standard Boom Length:	11' 0" (3.35 m) from CL of Crane
Boom Extension:	1st stage: Hydraulic 60" (152.4 cm) 2nd stage: Hydraulic 60" (152.4 cm)
Maximum Horizontal Reach:	21' 0" (6.40 m) from CL of Crane
Maximum Vertical Lift: (from crane base)	23' (7.01 m)
Boom Elevation:	-5 to +80 degrees
Stowed Height: (crane only)	35.5" (90.2 cm)
Mounting Space Required:	20" x 21" (50.8 x 53.3 cm)
Approximate Crane Weight:	1625 lbs (735 kg)
Controls:	Radio control standard for all functions.
Winch Specifications	
Rope Diameter:	3/8" (.952 cm)
Line pull speed:	60 ft/min (18.29 m/min)
Max. single part line:	3750 lbs (1700 kg)
Max. double part line:	7500 lbs (3400 kg)
Rotation: (worm gear)	400 degree power
Lifting Capacities:	3455 lbs @ 11' (1565 kg @ 3.35 m) 2375 lbs @ 16' (1075 kg @ 4.88 m) 1810 lbs @ 21' (820 kg @ 6.40 m)
Power Supply Required:	PTO & Pump (8.0 gpm @ 3000 psi) (30.31 lpm @ 207 bar)

*Subject to change without notification

Capacity Chart - Decal PN 54958



Weight of load handling devices are part of the load lifted and must be deducted from the capacity.

Maximum 1 - part line capacity is 3750 lbs (1700 kg). For greater loads, use 2 - part line.

STELLAR® 7621

PN 54958

Chapter 2 - Installation

Notice: Read this Page Before Installation of the Crane

General Installation

This chapter is designed to serve as a general guide for the installation of a Stellar 7621 Telescopic Crane on a Stellar Service Body. Each installation is considered unique so certain portions of this chapter may or may not apply to your direct application. If a question should arise during the installation process, please contact Stellar Customer Service at (800) 321 3741.

This crane is designed for use with a Stellar Service Body installed on a vehicle that meets the minimum chassis requirements of the crane. It is the installer's responsibility to assure that the crane is mounted on a platform that will support the maximum crane rating of this crane.

Notice:
PTO and Pump installation instructions are provided by the corresponding manufacturers. For more information on which PTO and Pump fit your application, please contact your local Stellar Distributor or Stellar Customer Service.

Important: When installing welder units to the service bodies, it is highly recommended that a surge protector is installed on the chassis batteries to protect the crane radio receiver, wiring and other electronic devices from an unexpected electrical spike or surge. Failure to do so could result in extensive damage to the service body and crane electrical circuit.

Installation Notice

According to Federal Law (49 cfr part 571), each final-stage manufacturer shall complete the vehicle in such a manner that it conforms to the standards in effect on the date of manufacture of the incomplete vehicle, the date of final completion, or a date between those two dates. This requirement shall, however, be superseded by any conflicting provisions of a standard that applies by its terms to vehicles manufactured in two or more stages.

Therefore, the installer of Stellar cranes and bodies is considered one of the manufacturers of the vehicle. As such a manufacturer, the installer is responsible for compliance with all applicable federal and state regulations. They are required to certify that the vehicle is in compliance with the Federal Motor Vehicle Safety Standards and other regulations issued under the National Traffic and Motor Vehicle Safety Act.

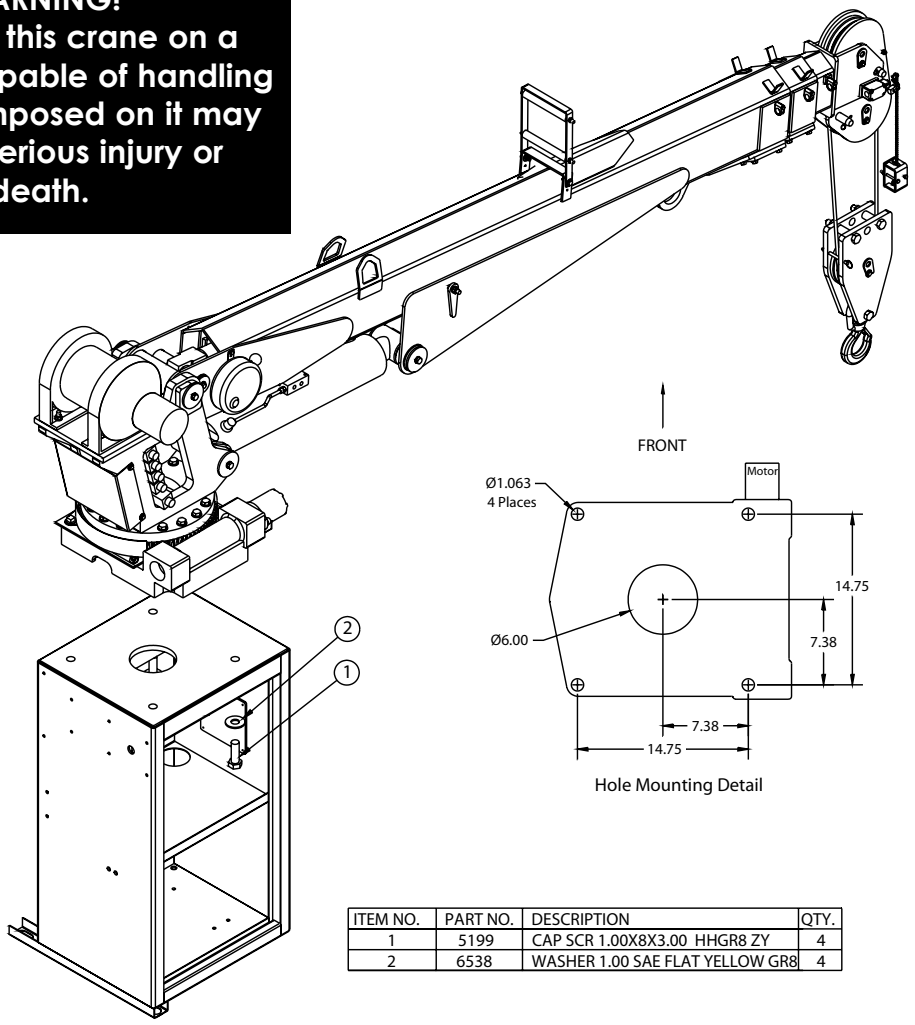
Please reference the Code of Federal Regulations, title 49 - Transportation, Volume 5 (400-999), for further information, or visit http://www.gpoaccess.gov/nara/index.html for the full text of Code of Federal Regulations.

Installation Overview

1. Determine that the mounting location for the 7621 crane is at least 18" x 20" (45.7 x 50.8 cm).
2. Use the detail below to drill 1.06" diameter holes into the mounting plate. Run tap on the threads of the base to be sure they are clean.
3. Use a crane or lifting device capable of lifting the weight of the Stellar crane. The Stellar 7621 weighs approximately 1625 lbs (735 kg). **Note: cranes are shipped with rotation positioned at 200 degrees of 400 degree system.** This will allow for easy installation of the crane and permanent connection of all hydraulic and electrical components prior to repositioning into the crane saddle.
4. Connect straps or chain from the lifting device to the lifting rings on the Stellar 7621.
5. Use four (4) 1" x 3" #8 bolts and four (4) #8 flat washers.
6. Install a washer on each bolt.
7. Apply Loctite Thread locker #277 to the bolts.
8. Using the lifting device, lower the Stellar 7621 just above the crane compartment and start the bolts. Have someone assist in leveling the crane. **Note: the rotation motor should be to the door side of crane compartment and the boom should be extended back over the rear bumper.**
9. Secure the crane using the mounting hardware provided. **Note: longer or shorter cap screws may be required – recommended thread engagement into crane base is 1.75" – use grade 8, zinc plated cap screws only.**
10. Torque the cap screws to 680 ft-lbs.
11. Remove supporting crane.
12. Hook-up hydraulics and electrical.

Note: If questions should arise during any portion of this installation, please contact Stellar Customer Service at (800) 321-3741.

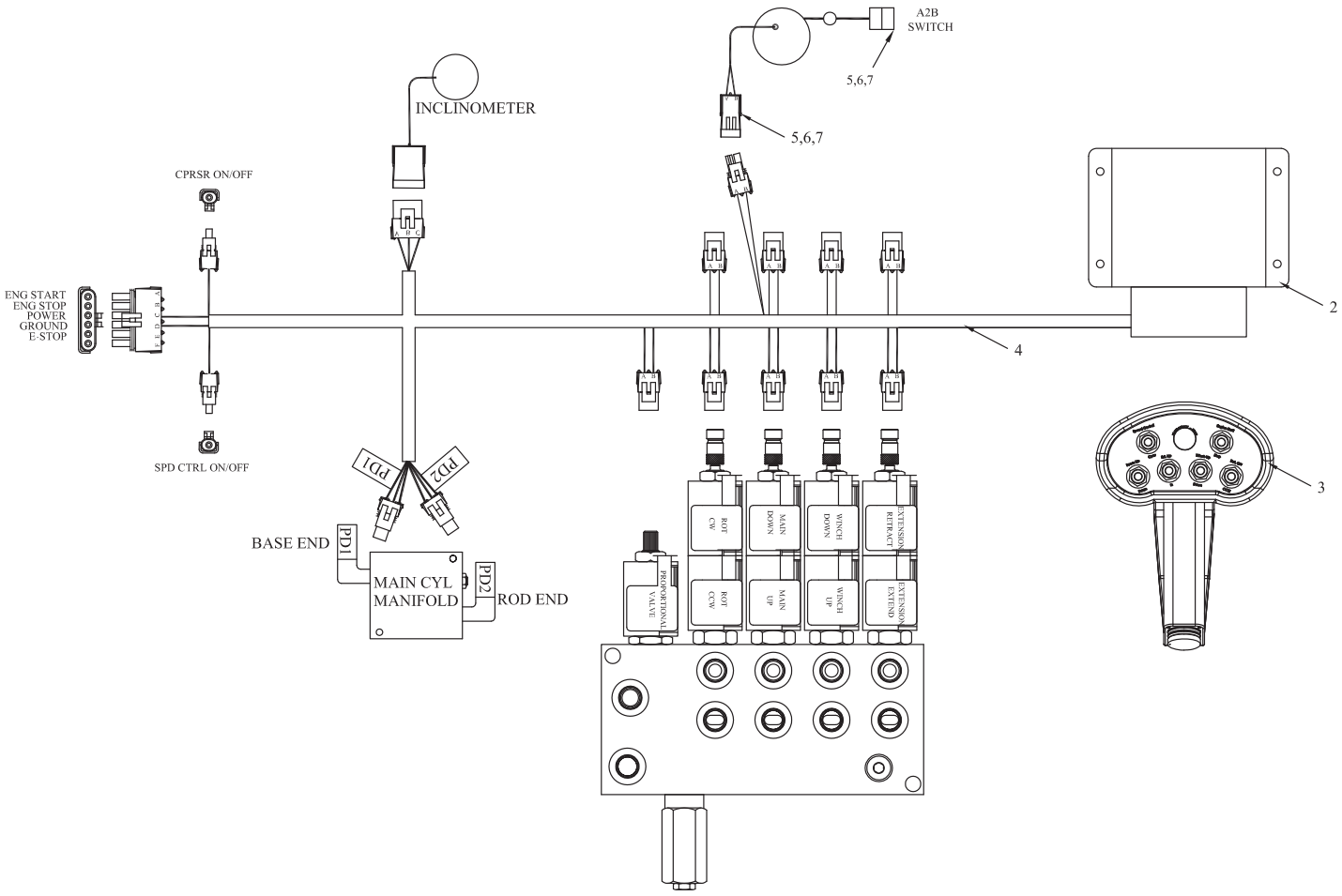
WARNING!
The use of this crane on a body not capable of handling the loads imposed on it may result in serious injury or death.



Hole Mounting Detail

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	5199	CAP SCR 1.00X8X3.00 HHGR8 ZY	4
2	6538	WASHER 1.00 SAE FLAT YELLOW GR8	4

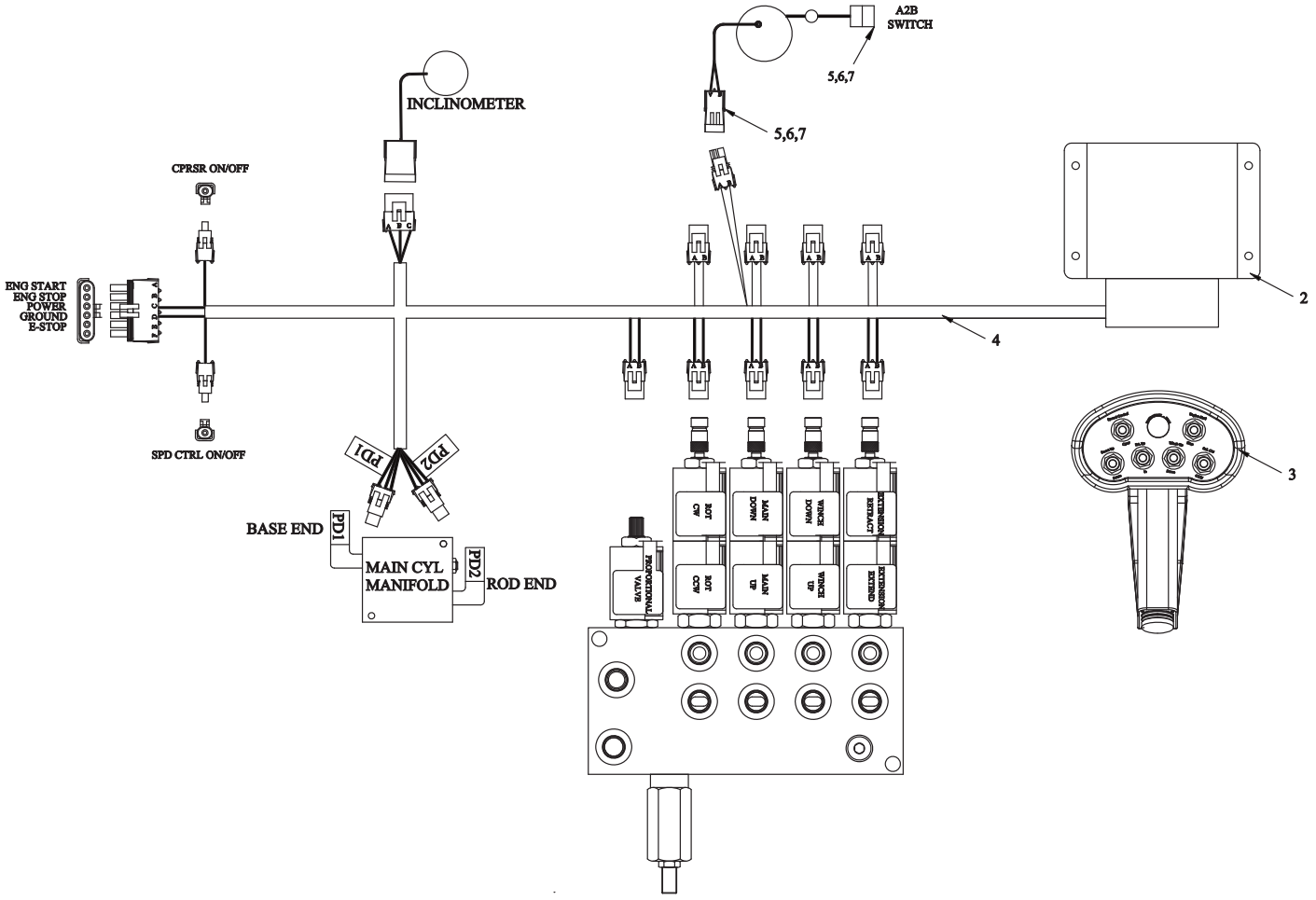
Control Kit - PN 54952



PN 54952

ITEM	PART No.	DESCRIPTION	QTY
07	8384	CABLE SEAL	4
06	9752	CONNECT 2 PIN SHROUD	2
05	9756	CONTACT M/TERM SHROUD	4
04	46307	WIRE HARNESS 12621/12628 LMI	1
03	.	TRANSMITTER · RADIO (PART OF 1)	REF
02	.	RECEIVER · RADIO (PART OF 1)	REF
01	54776	RADIO CONTROLLER ASSEMBLY	1

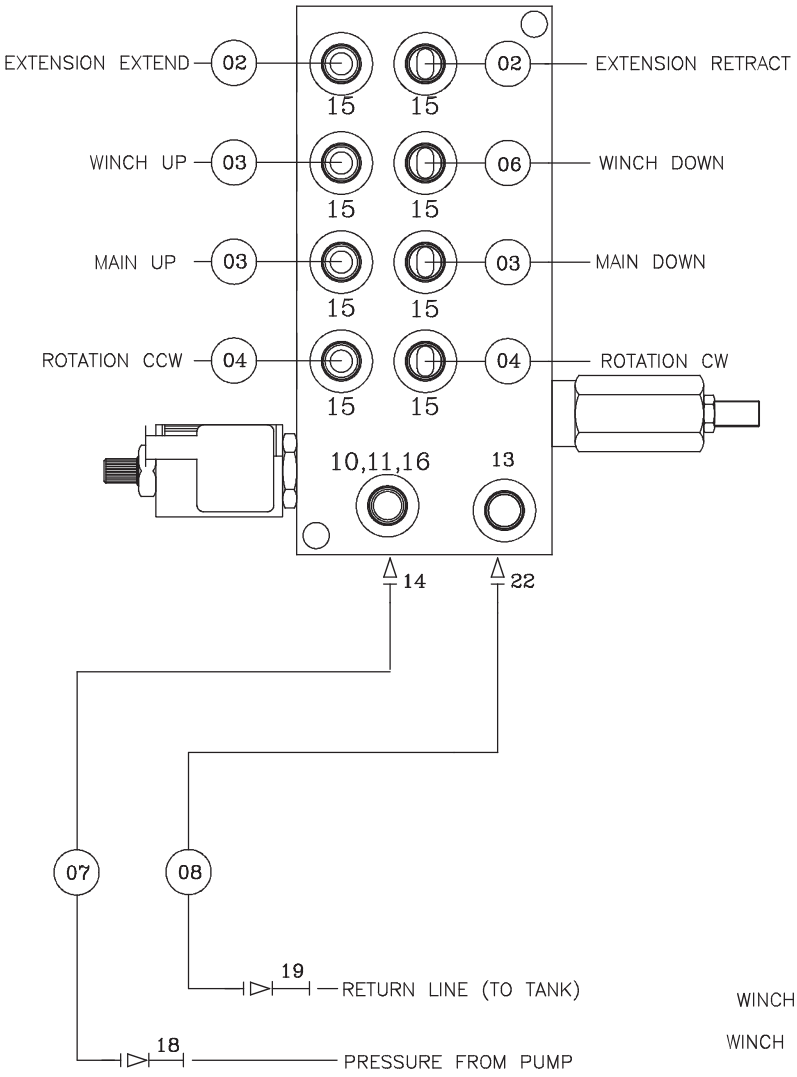
Control Kit (Non-Boost) - PN 55823

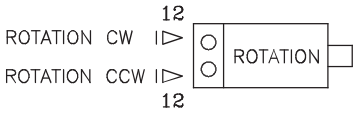


PN 55823

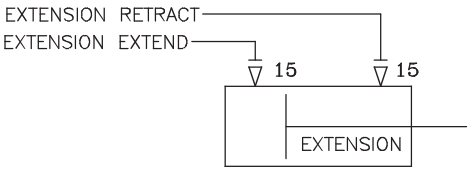
07	8384	CABLE SEAL	4
06	9752	CONNECT 2 PIN SHROUD	2
05	9756	CONTACT M/TERM SHROUD	4
04	46307	WIRE HARNESS 12621/12628 LMI	1
03	.	TRANSMITTER - RADIO (PART OF 1)	REF
02	.	RECEIVER - RADIO (PART OF 1)	REF
01	55790	RADIO CONTROLLER ASSEMBLY	1
ITEM	PART No.	DESCRIPTION	QTY

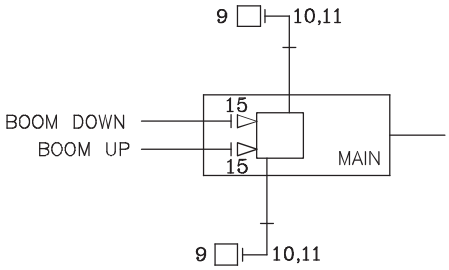
Hydraulic Kit - PN 52264

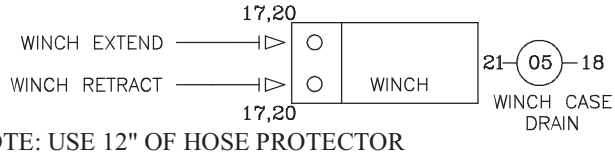




NOTE: USE 32" OF HOSE PROTECTOR
P/N 17288 OVER THE ROTATION HOSES







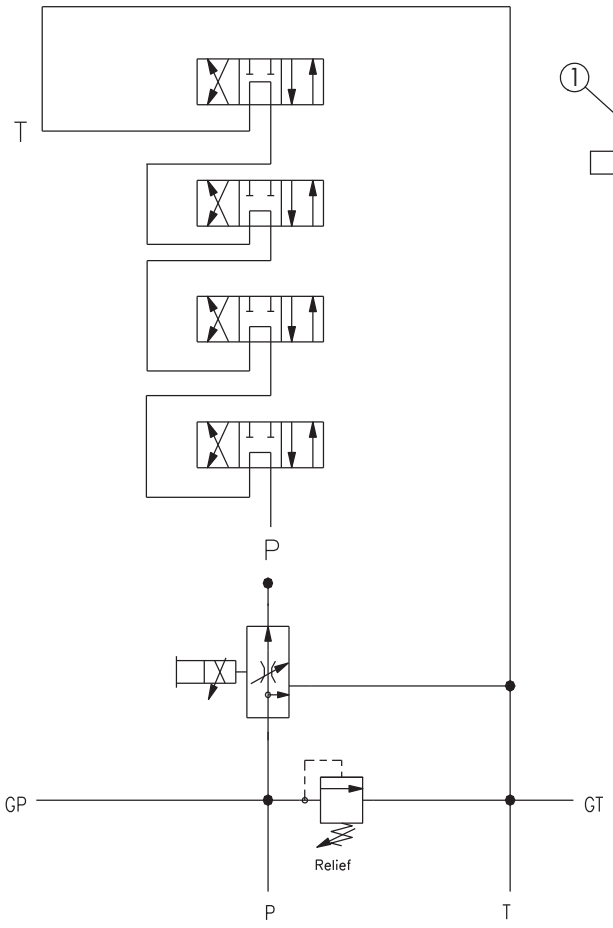
NOTE: USE 12" OF HOSE PROTECTOR
P/N 17288 OVER THE 3 WINCH HOSES

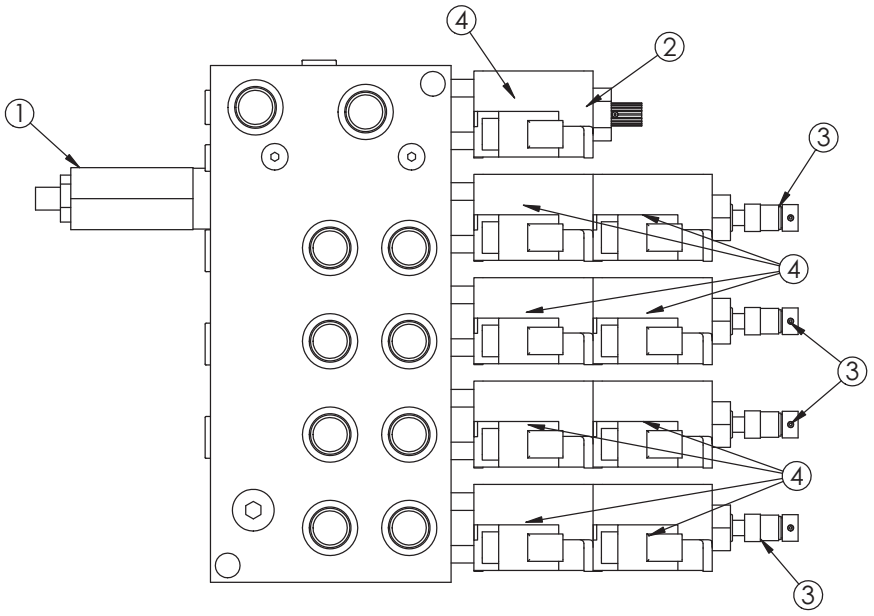
PN 52264

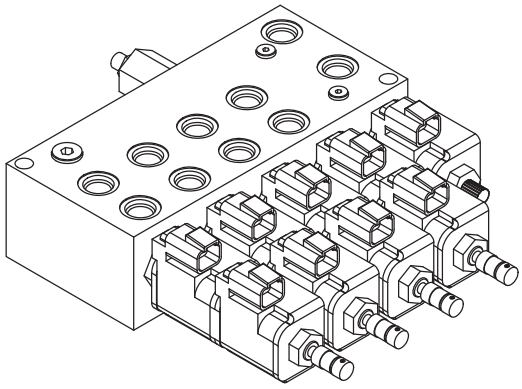
12	D1302	FTG ADAPT 90 6-10-C5OLO-S	2				
11	3861	FTG 90 MSTR/FSTR 6	3	23	17288	HOSE PROTECTOR 1.00 AS-B-27	44"
10	15111	FTG ADAPT MSTH/FSTH 6-4-F5OG5	3	22	C1175	FTG ELL 8-V5OLO-S	1
09	28485	TRANSDUCER PRESSURE 5000 PSI	2	21	C4929	FTG ADAPT 6-4 F5OLO-S	1
08	45438	HOSE-HYD .50 X 8	1ref	20	C5547	FTG ADAPT 90 6-8 C5OLO-S	2
07	45439	HOSE-HYD .38 X 9	1ref	19	12172	FTG SWIVEL 0.50 FS/FS PS81 JMJM-8-8	1
06	52276	HOSE-HYD .38 X 25	1ref	18	12171	FTG SWIVEL 0.38 FS/FS PS81 JMJM-6-6	2
05	28012	HOSE-HYD .38 X 36	1ref	17	D0549	FTG ADAPT 16-8 F5OG5-S	2
04	13030	HOSE-HYD .38 X 39	2ref	16	39780	GAUGE OIL LF 2.5 0-5000 CBM SAE	1
03	13029	HOSE-HYD .38 X 22.50	3ref	15	0279	FTG ADAPT 6 F5OLO-S	12
02	13028	HOSE-HYD .38 X 17	2ref	14	D1193	FTG ADAPT 6-V5OLO-S	1
01	52267	HOSE KIT12621/12628 (incl:2-8)	1	13	C4961	PLUG STR HOLLOW HEX 0.38 6-HP5ON	1
ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY

Valve Bank - PN 52265

HYDRAULIC SCHEMATIC





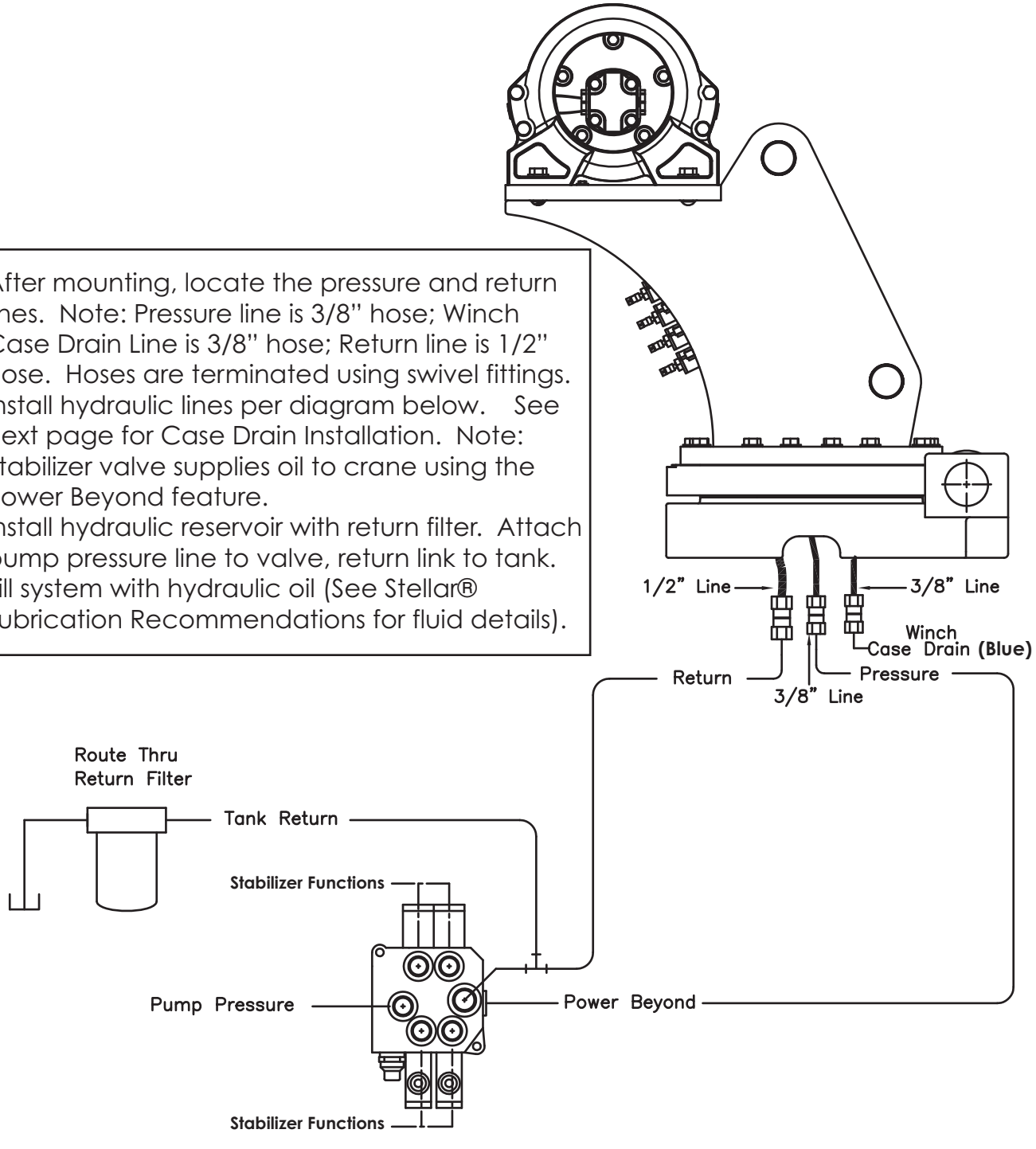


PN 52265

ITEM	PART	DESCRIPTION	QTY
1	25367	RELIEF VALVE 24685/24690	1
	25368	SEAL KIT 25367	
2	24960	VALVE FLW CTRL PRP/JP04C3150N 0-8	1
	25369	SEAL KIT 24960/25381	
3	25371	VALVE SOLND 3 POS 4 WAY TAND G04571	4
	25373	SEAL KIT 25371/25372	
4	44532	COIL 12VDC DUETSCH CAP012H	9

Hydraulic Installation

1. After mounting, locate the pressure and return lines. Note: Pressure line is 3/8" hose; Winch Case Drain Line is 3/8" hose; Return line is 1/2" hose. Hoses are terminated using swivel fittings.
2. Install hydraulic lines per diagram below. See next page for Case Drain Installation. Note: Stabilizer valve supplies oil to crane using the Power Beyond feature.
3. Install hydraulic reservoir with return filter. Attach pump pressure line to valve, return link to tank.
4. Fill system with hydraulic oil (See Stellar® Lubrication Recommendations for fluid details).



Typical Stabilizer Valve with Power Beyond Capabilities

Winch Case Drain Installation

Installing the winch case drain

1. The winch case drain must run directly to the reservoir to ensure no back pressure in the line.
2. Use 3/8" hydraulic hose and fittings rated for a minimum of 300 psi.
3. Locate the winch case drain line at the bottom of the crane base as shown in Fig. 1 (Blue Hose). Note: Both the main pressure and winch case drane line use a 3/8" swivel fitting. Verify the winch case drain is attached to the hose that is connected to the winch motor.
4. Attach one end of the winch case drain to 3/8 swivel fitting located in step 3.
5. Route the winch case drain hose directly to the reservoir.
6. Connect the second end of the winch case drain to unshared fitting on the top of the reservoir as shown in Fig 2.

Fig.1

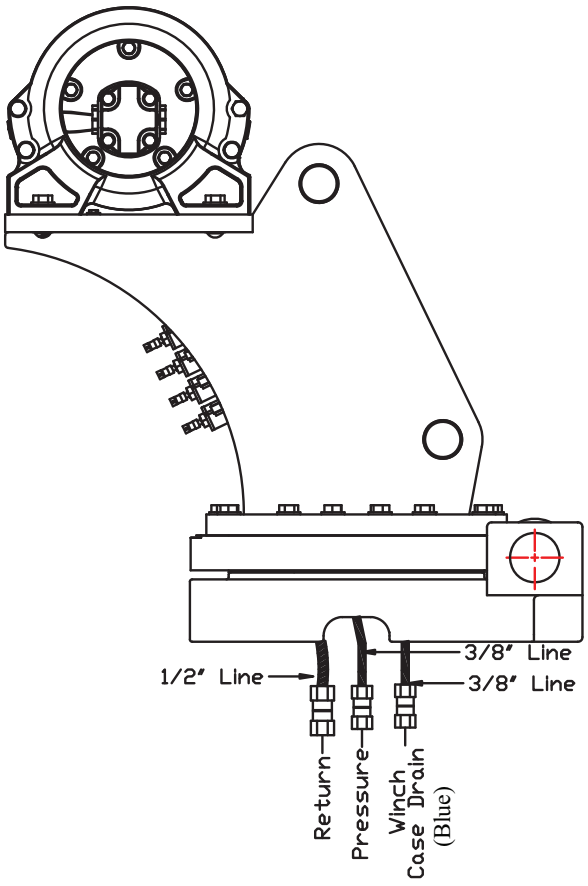
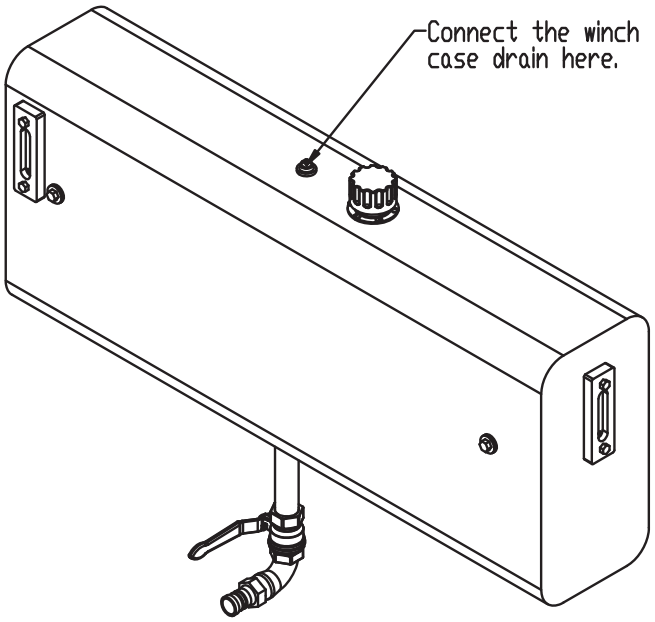
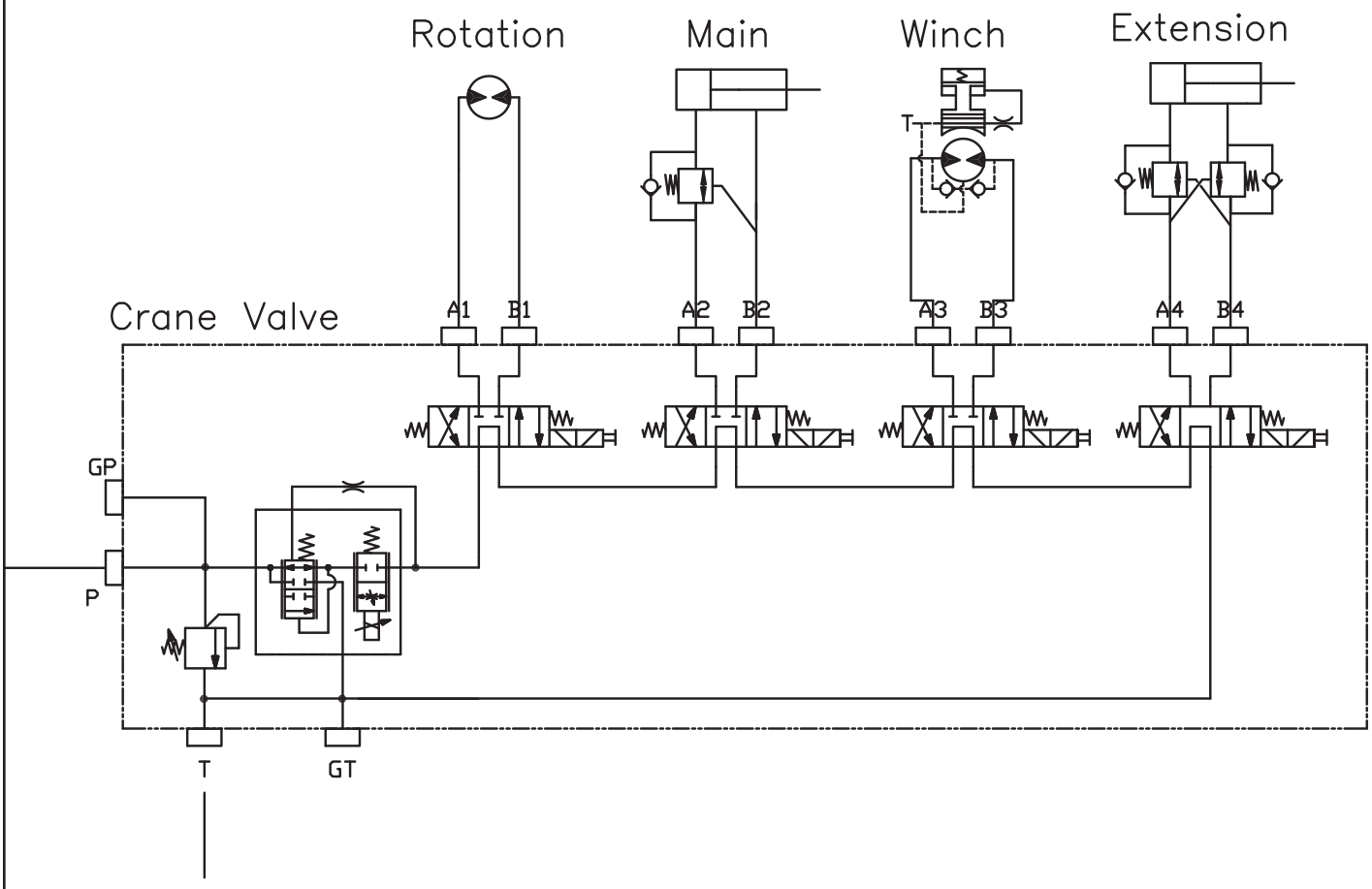


Fig. 2



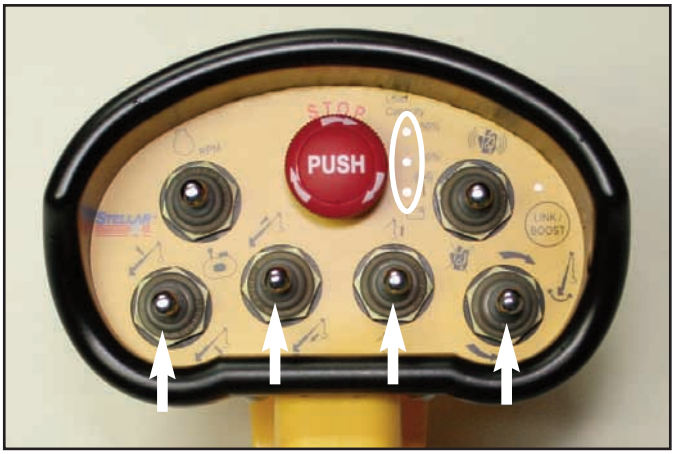
Hydraulic System



Stability Procedure

Definition of Stability for the Stellar Telescopic Crane Products:
A truck is stable until the load cannot be lifted off the ground with the winch, without tipping over the truck. Every Stellar crane installed must be tested for stability to determine the actual load capacity of the final truck package. The actual test data must be recorded and supplied with the truck at the time of in-service and should be kept with the truck at all times. The following procedure will test the truck package for stability and will provide a stability capacity chart. The load limit information shown on the stability capacity chart is formulated on 85% tipping.

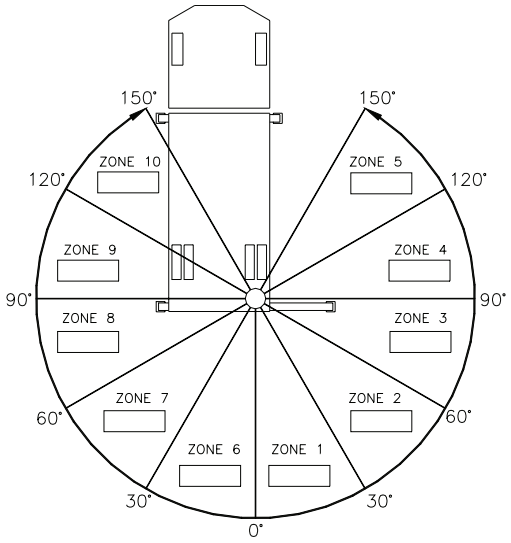
Set Up:
1. Locate the truck on a test course in position for loading and engage travel brakes.
2. Set stabilizers so that they make contact with firm, level footing.
3. Operate the crane under partial load to assure operator proficiency and proper machine function.
4. Put the radio into Stability Test Mode:



A. Push the bottom four switches up and hold until all lights come on (approximately 5 seconds.)
B. At this point ,the crane will have enough capacity to handle the weight for the stability test.
C. The radio will timeout of stability mode after 30 minutes or when the E-Stop button is pushed.

Note: The radio can only be put into stability mode five times. After that, the radio would have to be returned to Stellar to be reprogrammed to allow additional stability testing. All other radio functions will work properly even if stability mode is not available.

7621 Stability Data
Max Horizontal Reach: 252" (From the center of rotation to boom tip)
Boost Stability Test Weight: 2520 lbs.
Non-Boost Stability Test Weight: 2135 lbs.

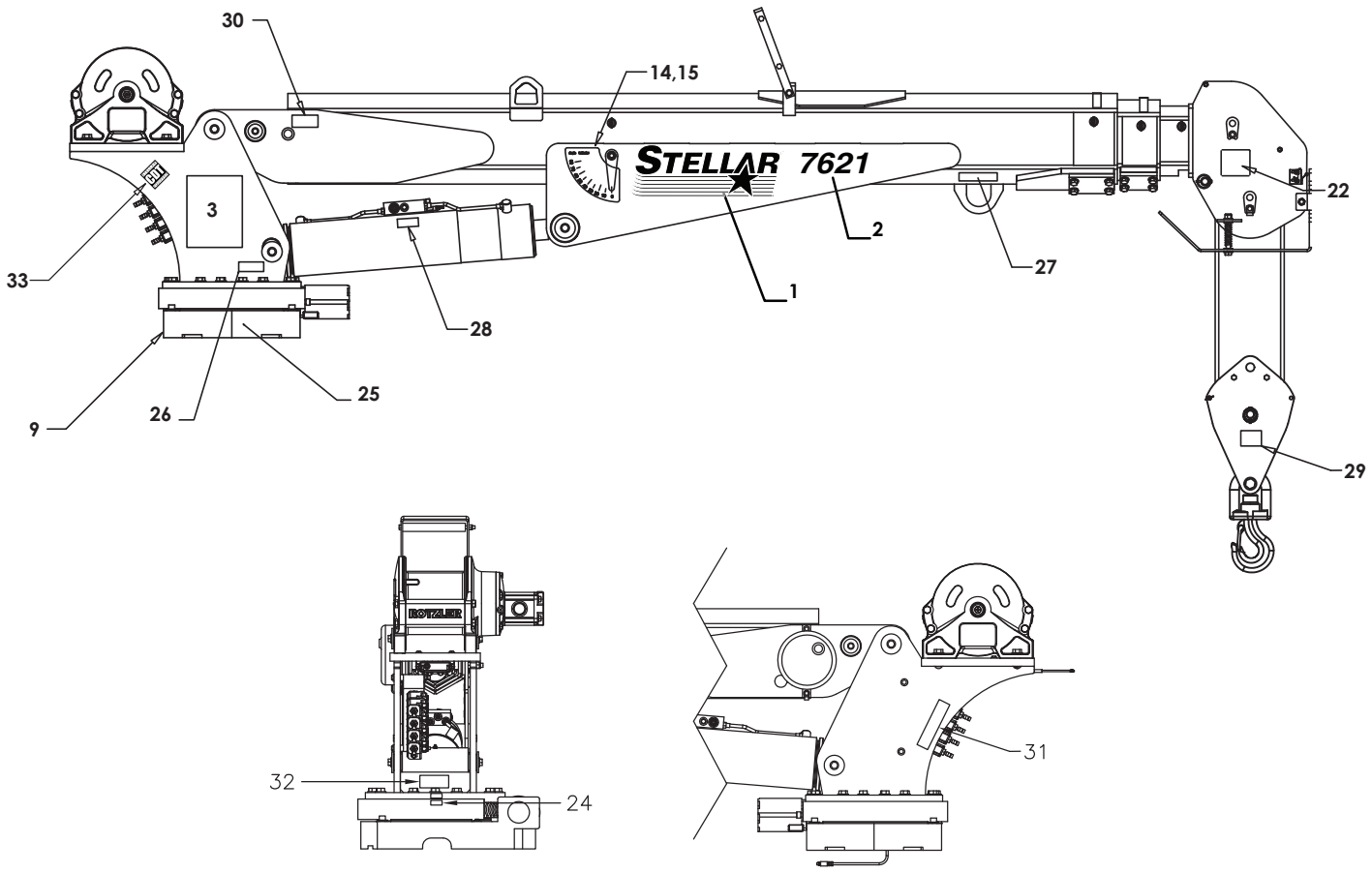


Test Procedure
1. Rotate the crane into Zone 1 position.
2. With the crane fully retracted and the boom horizontal, winch the test weight off the ground. Note: Keep weight within six inches of the ground at all times.
3. Extend the boom outward until full extension has been reached or until the truck becomes unstable (Again, use the winch to keep the weight within six inches of the ground.)
4. If the boom goes full extension without becoming unstable, the crane is termed stable for this zone and 100% can be written in the Zone 1 data box.
5. If the truck becomes unstable prior to going full extension, retract the boom until the truck becomes stable and measure the horizontal reach in this position (center of rotation to boom tip). This is the stable horizontal reach for this zone. Stable horizontal reach divided by Maximum horizontal reach multiplied by 100 equals the percentage of rated capacity for this zone. Use the following formula to determine the percentage of rated capacity:

$$\frac{\text{Stable Horizontal Reach}}{\text{Max Horizontal Reach}} \times 100 = \text{Percentage of Rated Capacity}$$

6. Record this number in the data box for Zone 1. This is the revised capacity due to stability for this zone.
7. Repeat this procedure for each zone until the worksheet is completed.
8. This is the revised capacity based on stability of this package.

Decal Placement - PN 54957



PN 54957

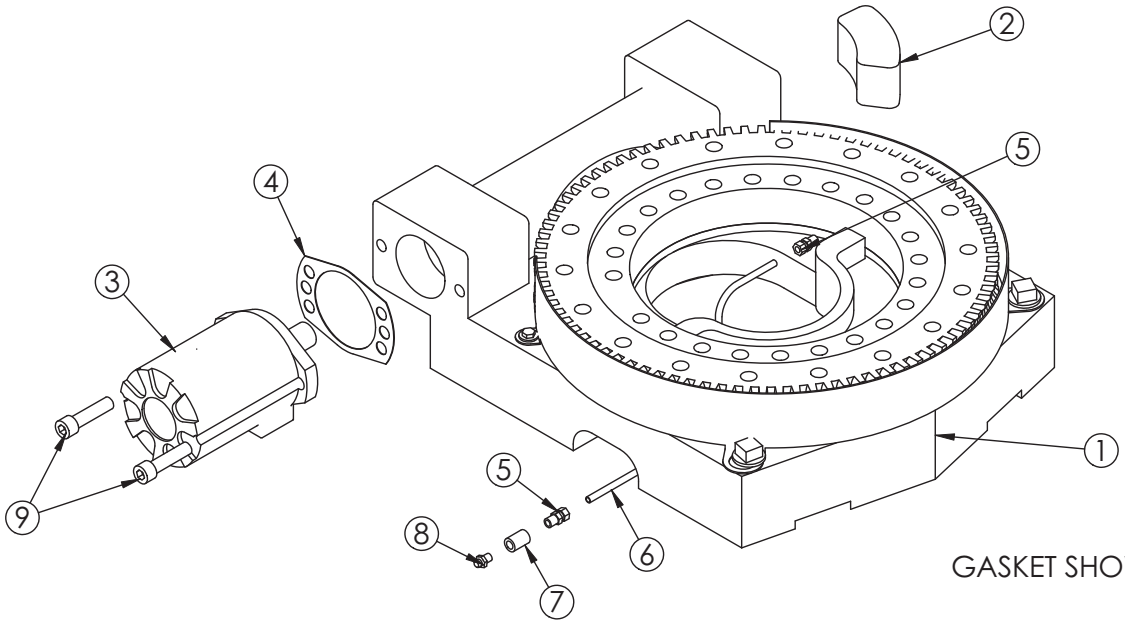
**THESE DECALS NOT INCLUDED WITH THE DECAL KIT

*USE THESE DECALS WITH BODY PACKAGE

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
				33	54588	DECAL CDT 2.00X2.00	2
*16	12451	DECAL HOISTING PERSONNEL	1	32	25159	DECAL WARNING MANUAL OVERRIDES	1
15	D1197	DECAL-ANGLE INDICATOR SS	1	31	52270	DECAL VB CONTROL MECH CRANE	1
14	D1196	DECAL ANGLE INDICATOR CS	1	30**	35234	DECAL STELLAR MADE IN THE USA	1
*13	C1179	DECAL-ELECTROCUTION 4.5x7.5	2	29	38472	DECAL SNATCH BLOCK CAP 5 TON	1
*12	C5918	DECAL-DANGER MOVING O.R.	2	28	28256	DECAL WARNING OVERLOAD DEVICE	1
*11	C4795	DECAL-DANGER O.R.	2	27	24712	DECAL CAUTION STOW HOOK	1
*10	4190	DECAL-DANGER	1	26	15172	DECAL ASME/ANSI B30.22/B30.5	1
09	9188	DECAL-ROTATE/GREASE	1	25	15171	DECAL GREASE WORM DRIVE BEARINGS	1
*08	4189	DECAL-DANGER	1	24	4188	DECAL-ROTATION ALIGNMENT	1
*07	4186	DECAL-ELECTROCUTION 2x2.75	1	*23	C4541	DECAL-CRANE STOWING	1
*06	C4544	DECAL-DANGER	1	22	12300	DECAL-TWO BLOCKING	1
*05	C4540	DECAL-DANGER	1	*21	4214	DECAL-SERVICE	1
*04	C4545	DECAL-ELECTROCUTION 5x13	4	*20	C0568	DECAL-DIESEL	2
*03	54958	DECAL CAPACITY	2	*19	12452	DECAL MANUAL EXT	1
02	54959	DECAL 7621 IDENTIFICATION	2	*18	C5911	DECAL-STELLAR 2x4.5	3
01	52681	DECAL STELLAR LOGO 6.5 x 18	2	*17	C5910	DECAL-STELLAR 4x9.5	1

Chapter 3 - Assembly Drawings

Base Assembly - PN 50364



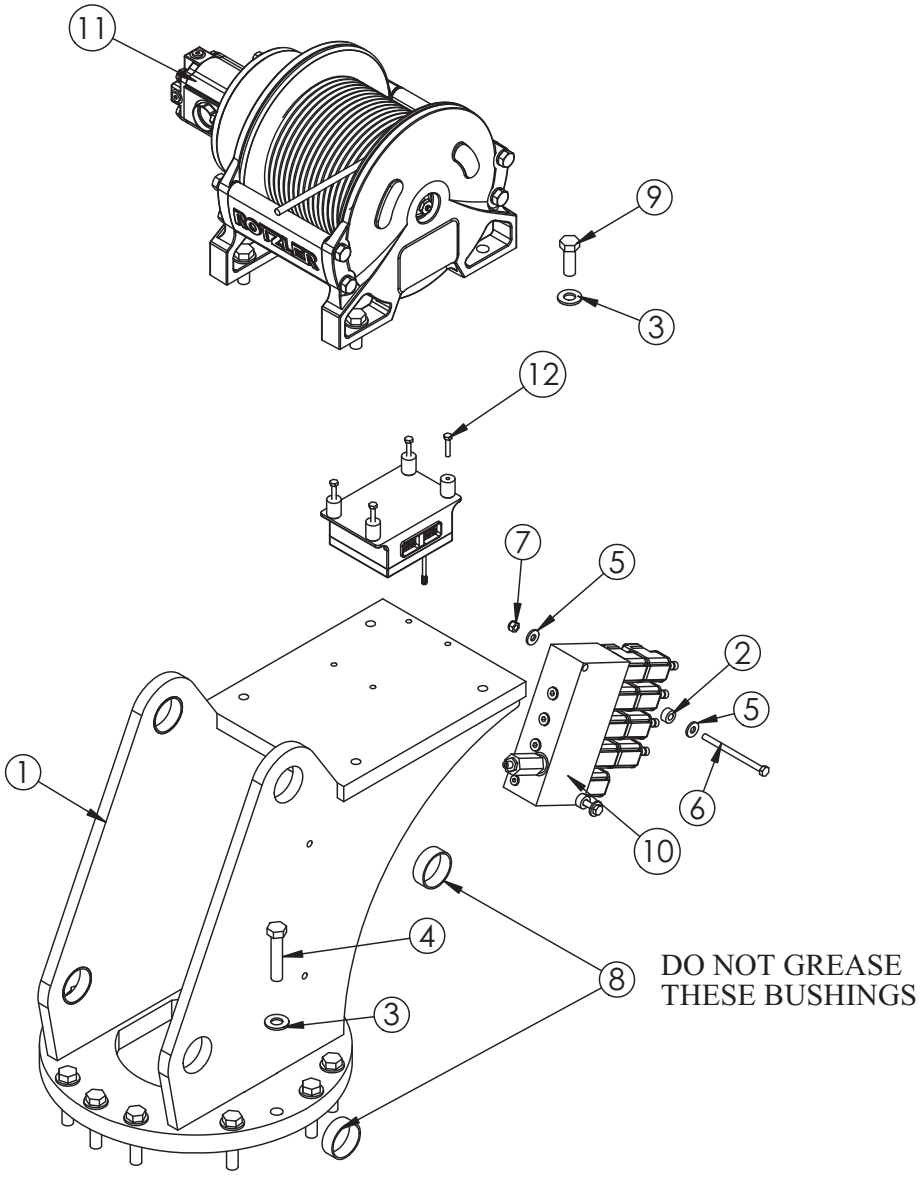
GASKET SHOWN AS REFERENCE

PN 50364

ITEM	PART	DESCRIPTION	QTY.
1	47869	BEARING SWING DRIVE CAST 6620 GEARTEK	1
2	11542	STOP 3820 400 SLIDE	1
3	C6069	MOTOR HYD ROSS MK080613AAAB	1
4	21151	GASKET MOTOR 008-10056-1	1
5	D1345	FTG CPRSN 0.12NPT/0.25 TUBE	2
6	D1810	TBE AIR SAEJ844 TYPE A .25 (RM)	1
7	C2256	FTG COUPLER PIPE 0.13	1
8	56589	ZERK 1/8 NPT STRAIGHT LONG THREAD	1
9	53495	CAP SCR 0.50-13X2.00 SH	2

NOTE: ITEMS 1 INCLUDE GUARD & GUARD FASTENERS

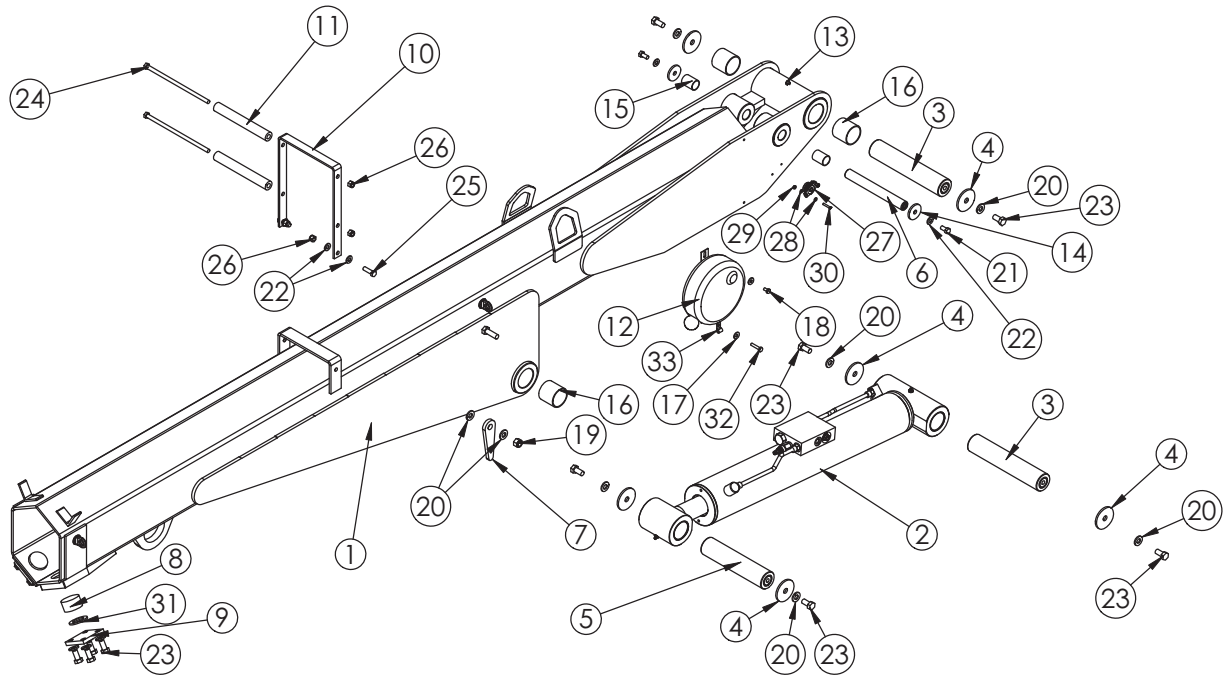
Mast Assembly - PN 54790



PN 54790

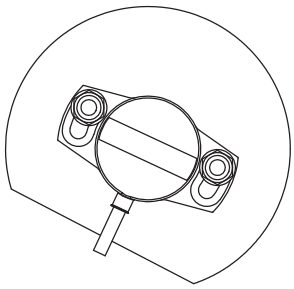
ITEM	PART	DESCRIPTION	QTY.
1	43483	MAST 10621/12621	1
2	27813	COLLAR 0.38X0.75X0.38 UHMW	2
3	C5902	WASHER 0.63 SAE FLAT YELLOW GR8	18
4	D1034	CAP SCR 0.63-11X3.00 HHGR8 RED PATCH	14
5	0343	WASHER 0.31 USS FLAT ZINC	4
6	C0933	CAP SCR 0.31-18X4.50 HHGR5	2
7	0342	NUT 0.31-18 HHGR5 NYLOC	2
8	44533	BUSHING HSG32350125 2.00X0.75	4
9	11693	CAP SCR 0.63-11X1.75 HHGR8	4
10	52265	VB 4 SECT W/PROP STER8GPM DEUTSCH	1
11	63516	WINCH 3750 TH2CC230246 W/100 FT ROPE	1
12	52490	CAP SCR 6MMX30MM HH 8.8(GR5)	4

Main Boom - PN 54941



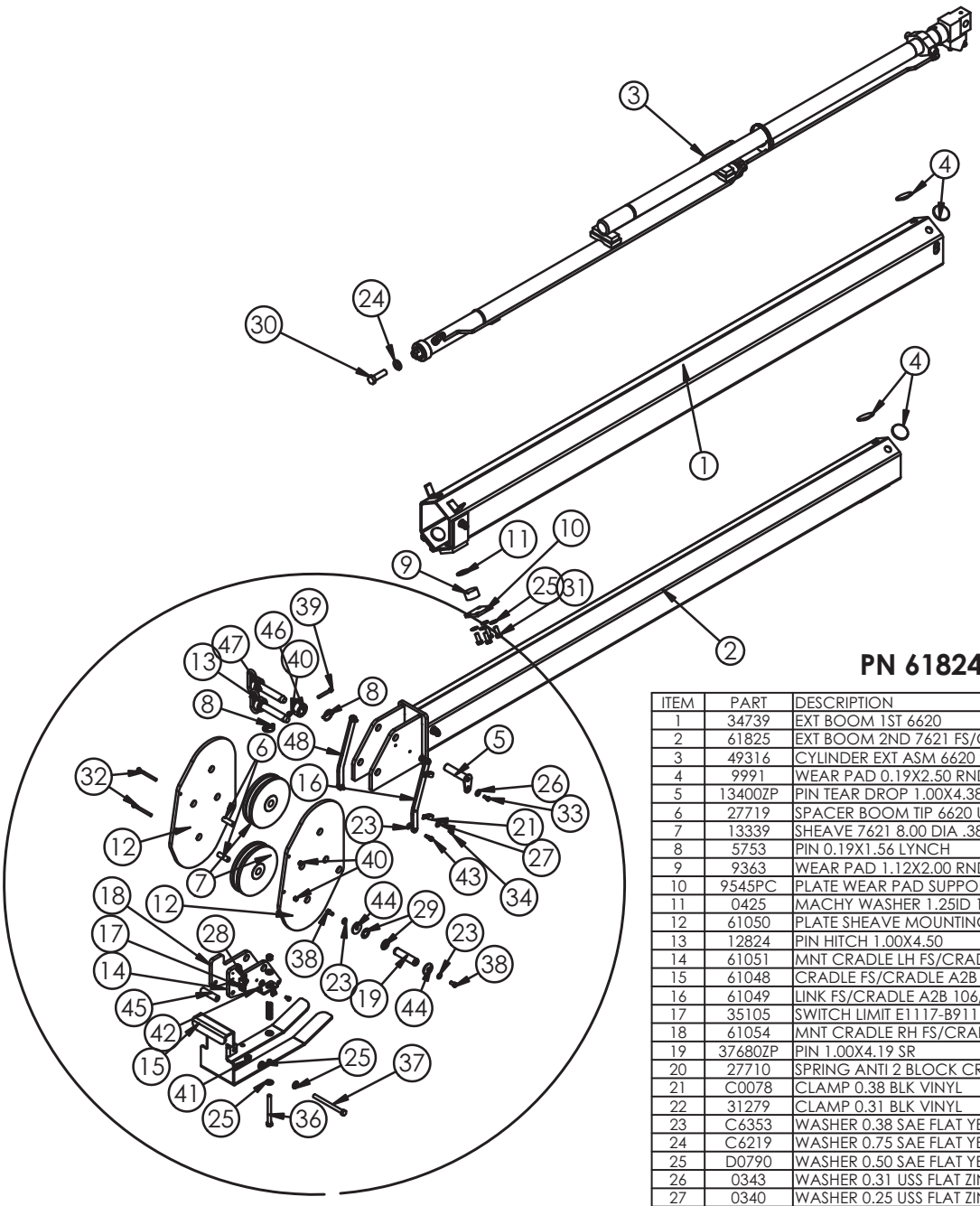
PN 54941

ITEM	PART	DESCRIPTION	QTY.
1	48018	INNER BOOM 6620	1
2	54942	CYLINDER ASM 6620 INNER CDT	1
3	9709ZP	PIN 2.00X10.19 D&T	2
4	9142	PIN CAP 0.56X2.50X0.19	6
5	9711ZP	PIN 2.00X8.88 D&T	1
6	9712ZP	PIN 1.00X8.38 D&T	1
7	D1194PC	PLATE ANGLE INDICATOR	2
8	9363	WEAR PAD 1.12X2.00 RND NYLATRON	2
9	9545PC	PLATE WEAR PAD SUPPORT	2
10	13435PC	BRKT ROPE GUIDE 9620	1
11	27720	SPACER ROPE GUIDE 6620 UHMW	2
12	11544	CORD REEL 6620	1
13	c1592	ZERK 1/8 NPT STRAIGHT	1
14	9320	PIN CAP 0.44X1.75X0.19 SS	2
15	0068	BUSHING BPC16DXR24 1.00X1.50	2
16	4381	BUSHING BPC32DXR32 2.00X2.00	4
17	0340	WASHER 0.25 USS FLAT ZINC	2
18	0478	CAP SCR 0.25-20X0.50 HHGR5	1
19	C6106	NUT 0.50-13 HHGR5 NYLOC	2
20	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	18
21	9843	CAP SCR 0.38-16X0.75 HHGR8	2
22	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	6
23	10172	CAP SCR 0.50-13X1.00 HHGR8	14
24	12168	CAP SCR 0.38-16X9.00 HHGR5	2
25	0335	CAP SCR 0.38-16X1.25 HHGR5	2
26	0347	NUT 0.38-16 HHGR5 NYLOC	4
27	53493	INCLINOMETER 60 DEG	1
28	18765	WASHER #6 SAE FLAT ZINC	4
29	D0076	NUT #6-32 HH NYLOC SS	2
30	18618	SCREW #6-32X1.00 PHMS PH	2
31	0425	MACHY WASHER 1.25ID 10GA	2
32	0437	CAP SCR 0.25-20X1.25 HHGR5	1
33	C5606	CLAMP 0.25 BLK VINYL	1



NOTE: INCLINOMETER MOUNTS INSIDE THE BOOM. VIEW SHOWS POSITION OF INCLINOMETER

Extension Boom Assembly - PN 61824



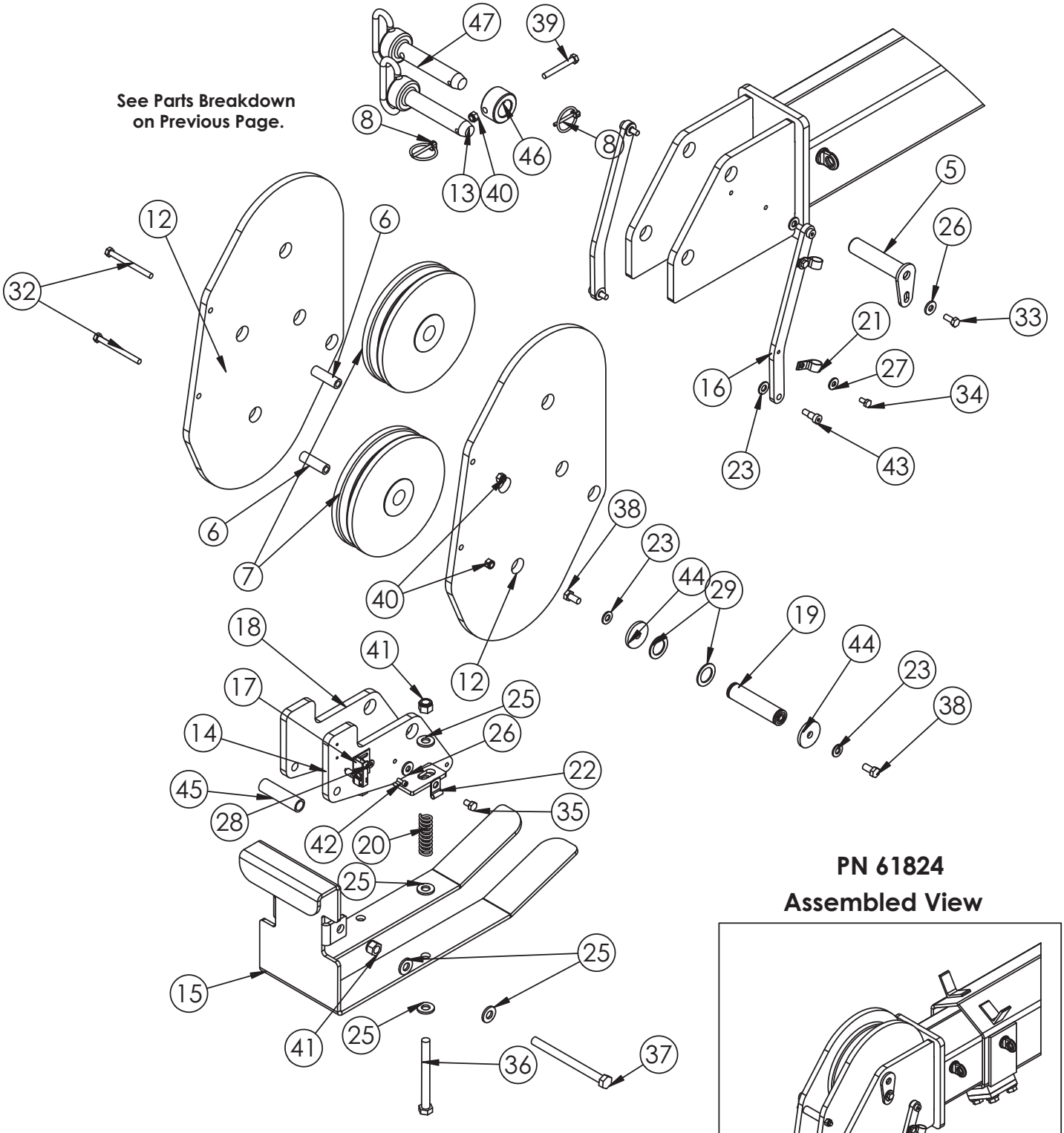
See Next Page for Expanded View.

PN 61824

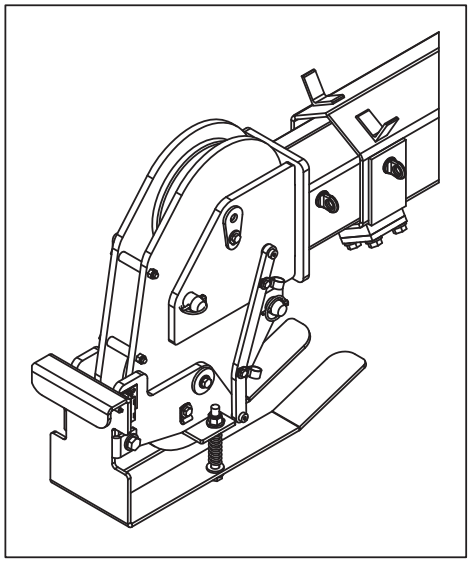
ITEM	PART	DESCRIPTION	QTY.
1	34739	EXT BOOM 1ST 6620	1
2	61825	EXT BOOM 2ND 7621 FS/CRADLE A2B	1
3	49316	CYLINDER EXT ASM 6620 2.0/2.0	1
4	9991	WEAR PAD 0.19X2.50 RND NYLATRON	4
5	13400ZP	PIN TEAR DROP 1.00X4.38	1
6	27719	SPACER BOOM TIP 6620 UHMW	2
7	13339	SHEAVE 7621 8.00 DIA .38R/1.88THK	2
8	5753	PIN 0.19X1.56 LYNCH	2
9	9363	WEAR PAD 1.12X2.00 RND NYLATRON	2
10	9545PC	PLATE WEAR PAD SUPPORT	2
11	0425	MACHY WASHER 1.25ID 10GA	2
12	61050	PLATE SHEAVE MOUNTING FS/CRADLE 106/126	2
13	12824	PIN HITCH 1.00X4.50	1
14	61051	MNT CRADLE LH FS/CRADLE A2B 106/126	1
15	61048	CRADLE FS/CRADLE A2B 106/126	1
16	61049	LINK FS/CRADLE A2B 106/126 W/HOLES	1
17	35105	SWITCH LIMIT E1117-B9111-6C	1
18	61054	MNT CRADLE RH FS/CRADLE A2B 106/126	1
19	37680ZP	PIN 1.00X4.19 SR	1
20	27710	SPRING ANTI 2 BLOCK CRADLE A2B	2
21	C0078	CLAMP 0.38 BLK VINYL	2
22	31279	CLAMP 0.31 BLK VINYL	1
23	C6353	WASHER 0.38 SAE FLAT YELLOW GR8	6
24	C6219	WASHER 0.75 SAE FLAT YELLOW GR8	1
25	D0790	WASHER 0.50 SAE FLAT YELLOW GR8	18
26	0343	WASHER 0.31 USS FLAT ZINC	2
27	0340	WASHER 0.25 USS FLAT ZINC	2
28	D0178	WASHER #10 SAE FLAT ZINC	2
29	0867	MACHY WASHER 1.00ID 14GA	2
30	58681	CAP SCR 0.75-10X2.50 HHGR8	1
31	10666	CAP SCR 0.50-13X1.25 HHGR8	8
32	0490	CAP SCR 0.31-18X3.50 HHGR5	2
33	0420	CAP SCR 0.31-18X0.75 HHGR5	1
34	0478	CAP SCR 0.25-20X0.50 HHGR5	2
35	0484	CAP SCR 0.31-18X0.50 HHGR5	1
36	C1000	CAP SCR 0.50-13X5.00 HHGR5	2
37	C1002	CAP SCR 0.50-13X6.00 HHGR5	1
38	9843	CAP SCR 0.38-16X0.75 HHGR8	2
39	0489	CAP SCR 0.31-18X2.50 HHGR5	1
40	0342	NUT 0.31-18 HHGR5 NYLOC	3
41	C6106	NUT 0.50-13 HHGR5 NYLOC	3
42	31132	CAP SCR #10-24X0.550 SH SS 18-8	2
43	61053	BOLT SHOULDER 0.38X0.50 0.31-18X0.50	4
44	9320	PIN CAP 0.56X3.50X.25	2
45	61548PC	PIPE 0.50X 3.13 SCH40	1
46	61549	COLLAR 1.13X2.00X1.13 W/HOLE	1
47	45125	PIN HITCH 1.00 FORK KPCC	1
48	65938	LINK FS/CRADLE A2B 106/126	1

Extension Boom Assembly - PN 61824 (Expanded)

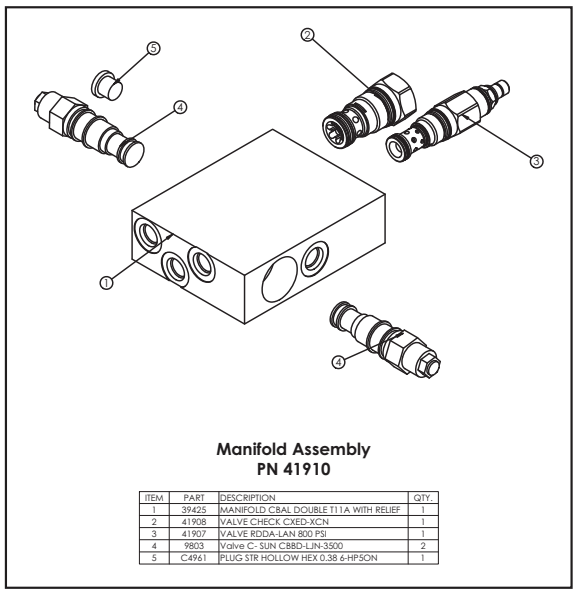
See Parts Breakdown on Previous Page.



PN 61824
Assembled View

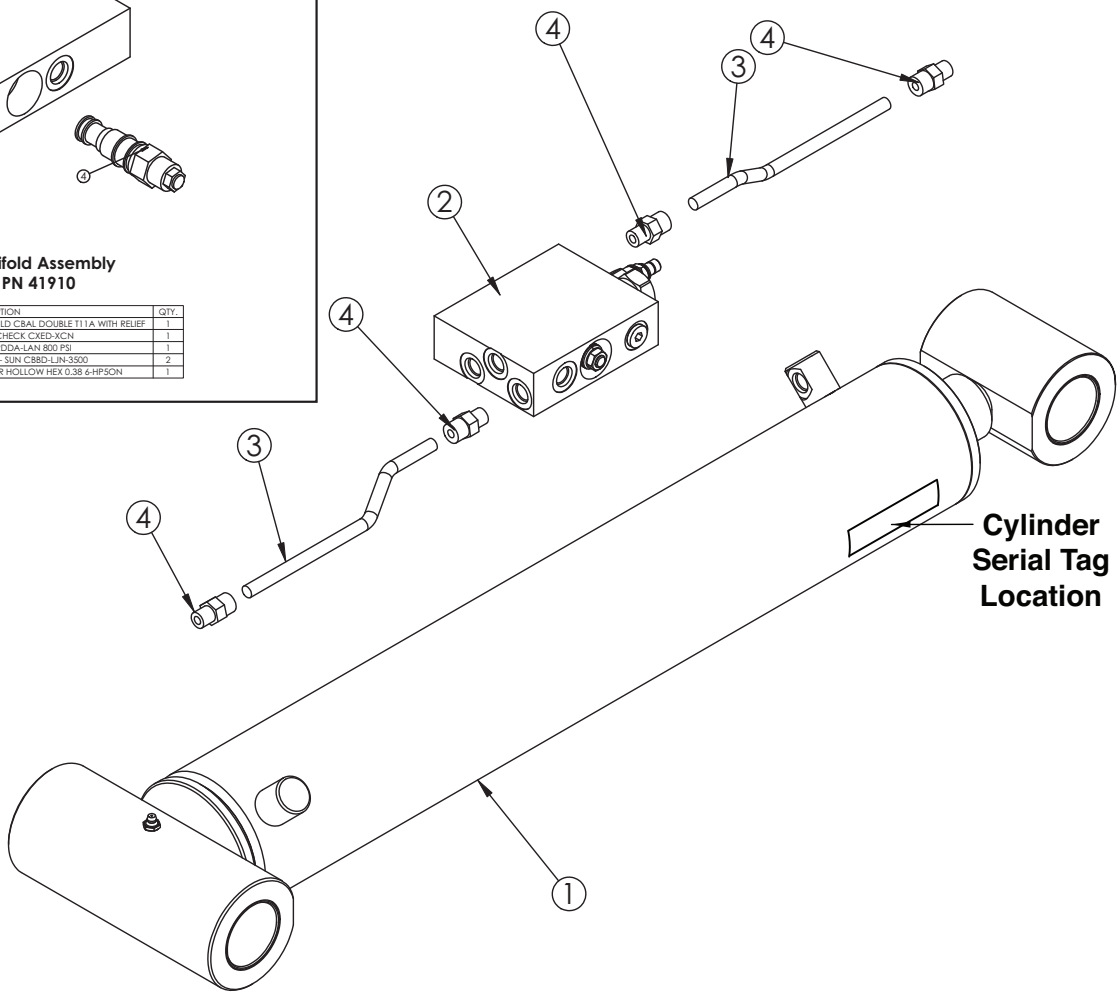


Main Cylinder Assembly - PN 54942



Manifold Assembly
PN 41910

ITEM	PART	DESCRIPTION	QTY.
1	39425	MANIFOLD CBAL DOUBLE T11A WITH RELIEF	1
2	41908	VALVE CHECK CXED-XCN	1
3	41907	VALVE RDDA-LAN 800 PSI	1
4	9803	Valve C- SUN CBBD-LIN-3500	2
5	C4961	PLUG STR HOLLOW HEX 0.38 6-HPSON	1

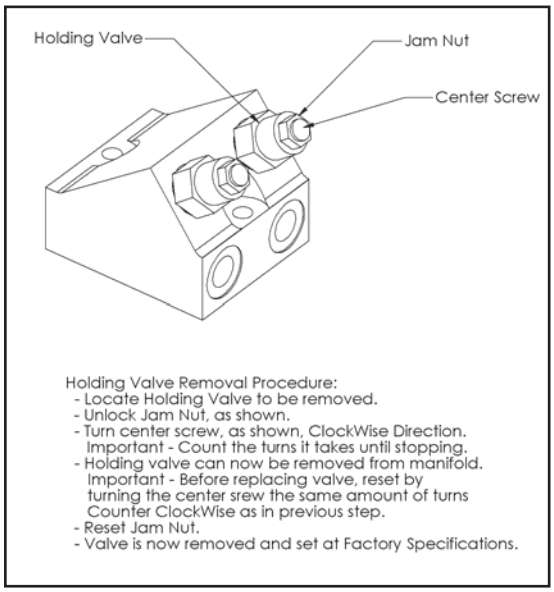


PN 54942

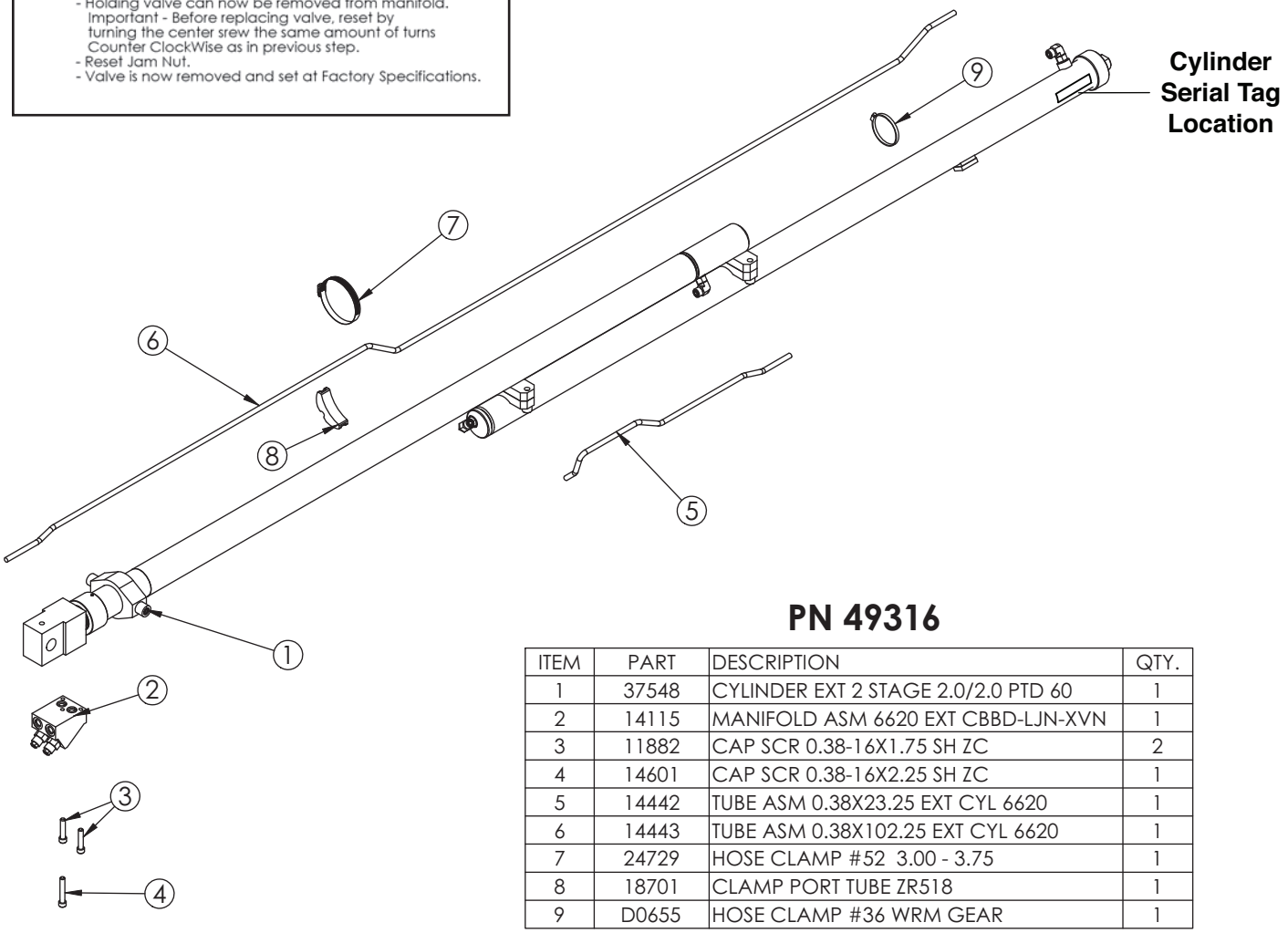
ITEM	PART	DESCRIPTION	QTY.
1	50918	CYLINDER INNER 4.00X21.38 NEW MAST	1
2	41910	MANIFOLD ASM DUAL 10-1CBAL-RLF-CHK	1
3	44066	TUBE ASM 0.38X8.25 MAIN 10628/12628	2
4	0279	FTG ADAPT 6-F5OLO-S	4

Note: Main Cylinder uses
Stellar Seal Kit PN 17724

Extension Cylinder Assembly - PN 49316



Holding Valve Removal Procedure:
- Locate Holding Valve to be removed.
- Unlock Jam Nut, as shown.
- Turn center screw, as shown, ClockWise Direction. Important - Count the turns it takes until stopping.
- Holding valve can now be removed from manifold. Important - Before replacing valve, reset by turning the center srew the same amount of turns Counter ClockWise as in previous step.
- Reset Jam Nut.
- Valve is now removed and set at Factory Specifications.



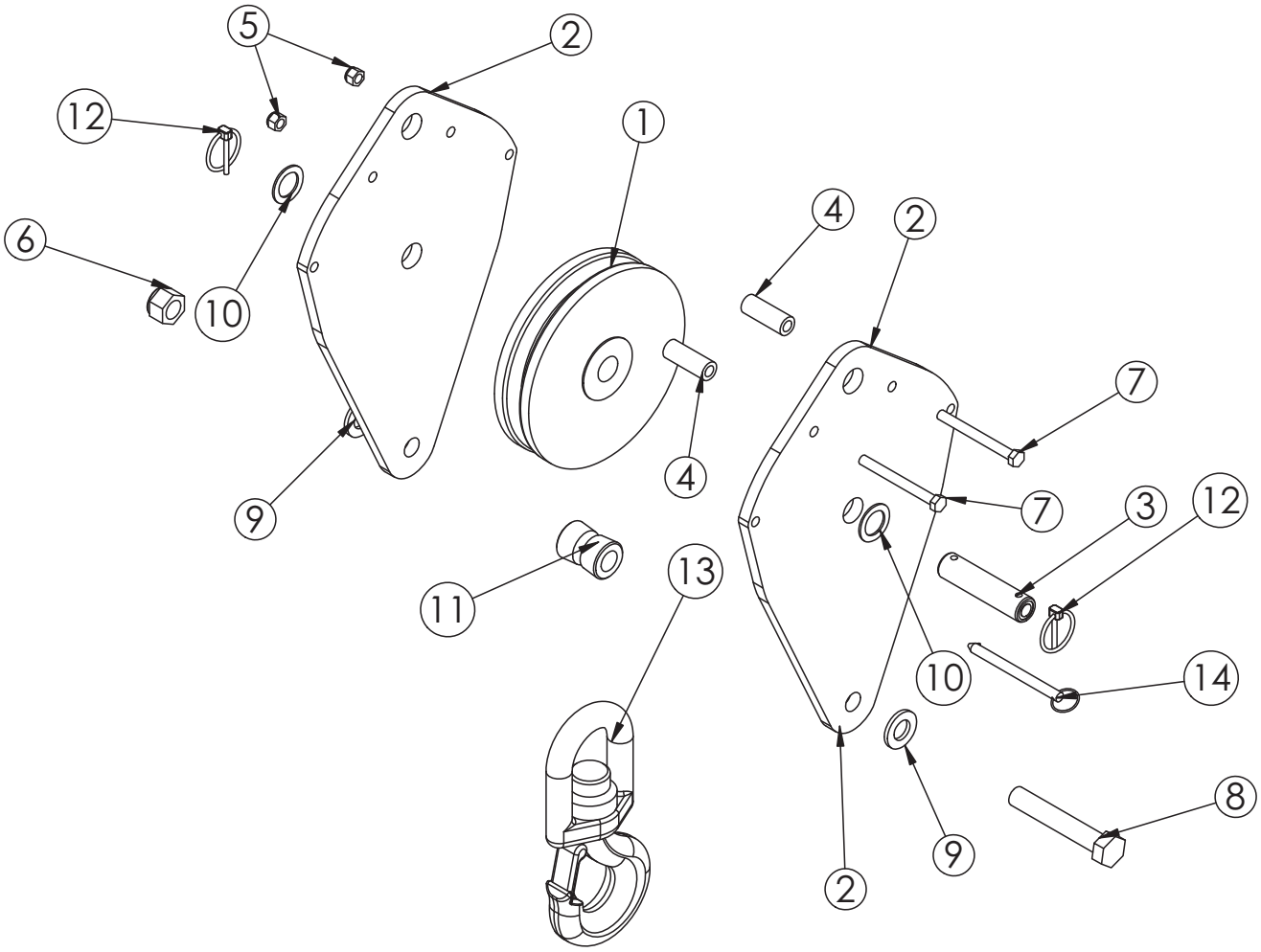
Cylinder Serial Tag Location

PN 49316

ITEM	PART	DESCRIPTION	QTY.
1	37548	CYLINDER EXT 2 STAGE 2.0/2.0 PTD 60	1
2	14115	MANIFOLD ASM 6620 EXT CBBD-LJN-XVN	1
3	11882	CAP SCR 0.38-16X1.75 SH ZC	2
4	14601	CAP SCR 0.38-16X2.25 SH ZC	1
5	14442	TUBE ASM 0.38X23.25 EXT CYL 6620	1
6	14443	TUBE ASM 0.38X102.25 EXT CYL 6620	1
7	24729	HOSE CLAMP #52 3.00 - 3.75	1
8	18701	CLAMP PORT TUBE ZR518	1
9	D0655	HOSE CLAMP #36 WRM GEAR	1

Extension Cylinder Uses:
Upper Seal Kit - PN 54778
Lower Seal Kit - PN 20310

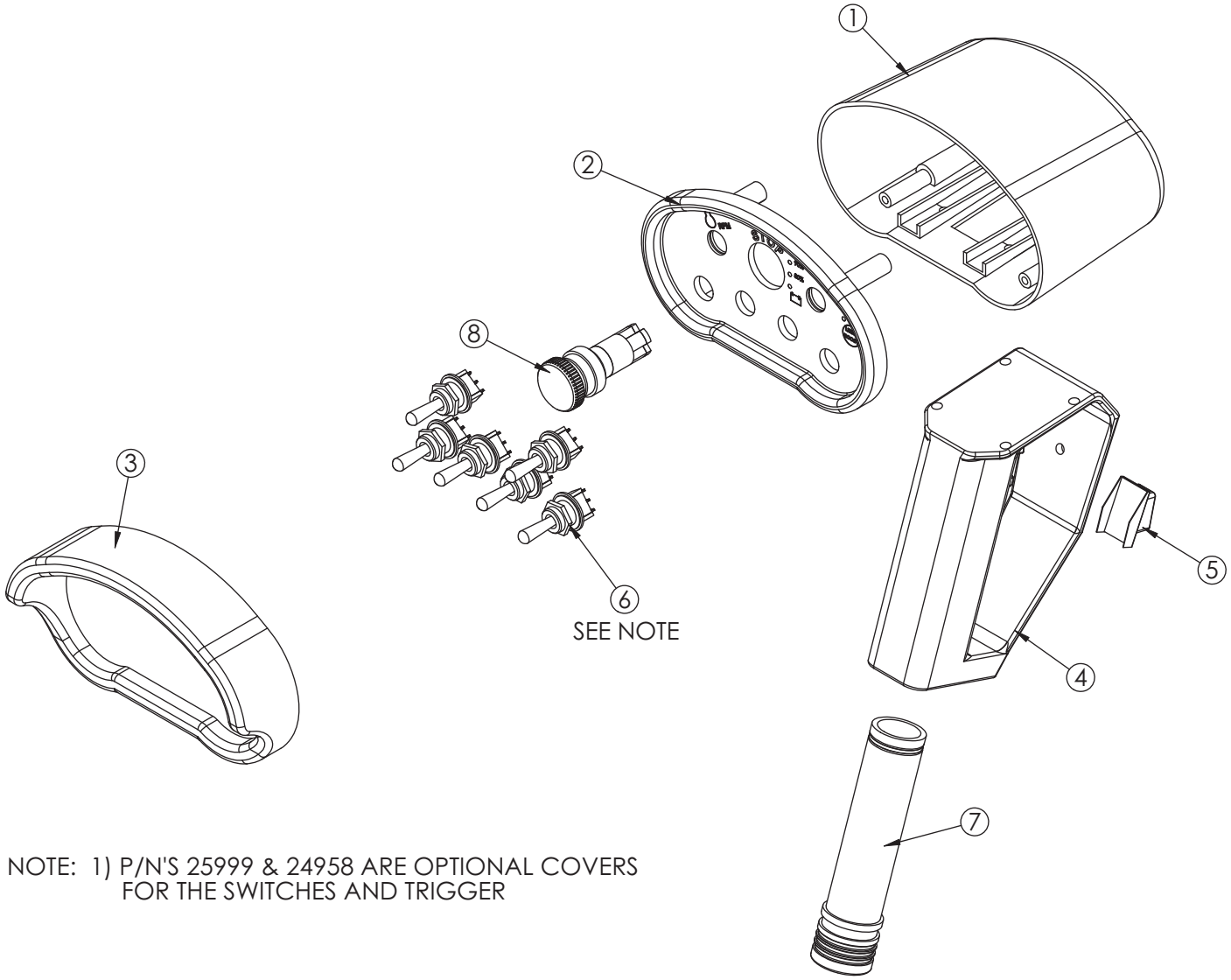
Snatch Block Assembly - PN 56266



PN 56266

ITEM	PART	DESCRIPTION	Default
1	13339	SHEAVE 7621 8.00 DIA .38R/1.88THK	1
2	53263PC	PLATE SNATCH BLOCK 76/96/106/126	2
3	39874ZP	PIN 1.00X4.06 COTTER	1
4	44643	COLLAR 0.44X0.75X2.00	2
5	0347	NUT 0.38-16 HHGR5 NYLOC	2
6	C0538	NUT 0.75-10 HHGR8 NYLOC	1
7	0532	CAP SCR 0.38-16X3.75 HHGR5	2
8	5841	CAP SCR 0.75-10X4.50 HHGR8	1
9	C6219	WASHER 0.75 SAE FLAT YELLOW GR8	2
10	0867	MACHY WASHER 1.00ID 14GA	2
11	39844ZP	BUSHING V HOOK SS	1
12	5753	PIN 0.19X1.56 LYNCH	2
13	25831	HOOK 5 TON SWIVEL CROSBY 1028623	1
14	13436	PIN .38X4.00 QUICK RELEASE	1

CDT™ Radio Transmitter Assembly - PN 56647



NOTE: 1) P/N'S 25999 & 24958 ARE OPTIONAL COVERS
FOR THE SWITCHES AND TRIGGER

PN 56647

ITEM	PART	DESCRIPTION	QTY.
1	20088	CONTROL HANDLE HOUSING 4 FCTN HET	1
2	56657	CONTROL HANDLE FACE PLT W/LABEL 6 FCTN CDT	1
3	24385	GUARD RADIO SWITCH 4 FCTN	1
4	35447	CONTROL HANDLE GRIP W/TRIGGER HT H2	1
5	24958	RUBBER BOOT TRIGGER GUARD HET	1
6	22600	SWITCH TOGGLE HET RADIO 63019300	6
7	35441	BATTERY TUBE AA HETRONIC RADIO	1
8	47856	SWITCH E STOP NOVA XL	1

Chapter 4 - Replacement Parts

PART#	DESCRIPTION
C6069	HYDRAULIC SWING MOTOR
25367	RELIEF VALVE
25368	SEAL KIT - RELIEF VALVE (25367)
24960	FLOW CONTROL VALVE
25369	SEAL KIT - FLOW VALVE (24960)
25371	SOLENOID VALVE TAND G04571
25373	SEAL KIT - SOLENOID VALVE (25371)
44532	COIL - 12VDC
39425	MANIFOLD - MAIN LIFT CYLINDER
41907	RELIEF VALVE - MAIN LIFT CYLINDER
41908	CHECK VALVE - MAIN LIFT CYLINDER
28485	PRESSURE TRANSDUCER
9803	C-BALANCE VALVE - MAIN LIFT & EXTENSION CYLINDER
6397	HYD PRESSURE GUAGE
C2027	O'RING - # 4 FACE SEAL
C2028	O'RING - # 6 FACE SEAL
C2029	O'RING - # 8 FACE SEAL
D1245	O'RING - # 4 SAE
D1246	O'RING - # 6 SAE
D1247	O'RING - # 8 SAE
44066	HYD TUBE ASSY - MAIN LIFT CYLINDER
14442	HYD TUBE ASSY - EXTENSION CYLINDER
14443	HYD TUBE ASSY - EXTENSION CYLINDER
17724	SEAL KIT (MAIN LIFT CYLINDER)
54778	SEAL KIT - EXTENSION CYLINDER (UPPER)
20310	SEAL KIT - EXTENSION CYLINDER (LOWER)
55827	WORM GEAR - BEARING SWING DRIVE
55829	BEARING & SEAL KIT - BEARING SWING DRIVE
55830	WORM GEAR / BEARING & SEAL KIT - BEARING SWING DRIVE
0068	BUSHING 1.00" X 1.50"
4381	BUSHING 2.00" X 2.00"
44533	BUSHING 2.00" X 0.75"
13403	WIRE ROPE
9363	WEAR PAD - 2.00" RND
9991	WEAR PAD - 2.50" RND
12824	HITCH PIN - 1.00" X 4.50"
5753	LYNCH PIN - 0.19" X 1.56"
13339	SHEAVE 8.00"
53493	INCLINOMETER 60 DEGREE
11938	LIMIT SWITCH - FLIP SHEAVE
31670	CHAIN & WEIGHT KIT - LIMIT SWITCH (FLIP SHEAVE)
35105	LIMIT SWITCH - CRADLE / BASKET
43488PC	CRADLE PLATE - ANTI-2-BLOCK (CRADLE/BASKET STYLE)
61048	CRADLE FS/CRADLE A2B (After 8/1/2011)
27710	SPRING - LIMIT SWITCH CRADLE / BASKET
11544	CORD REEL
56647	RADIO TRANSMITTER (HETRONIC RADIO)
34557	HANDLE ASM - TRANSMITTER
47856	E-STOP SWITCH (HETRONIC RADIO)
35441	BATTERY TUBE (AA) HOLDER (HETRONIC RADIO)
35916	BACK UP CORD 25FT (RADIO REMOTE SYSTEM)
25831	5-TON HOOK
19501	SAFETY LATCH ASM - 5 TON HOOK
C1592	GREASE ZERK
4460	GEAR BEARING GREASE - MOLUBE (Open Teeth)

Limited Warranty Statement

Stellar Industries, Inc. (Stellar) warrants products designed and manufactured by Stellar to be free from defects in material and workmanship under proper use and maintenance. Products must be installed and operated in accordance with Stellar's written instructions and capacities. This warranty shall cover the following:

Stellar Cranes, Stellar Hooklift Hoists, Stellar Cable Hoists, Stellar Container Carriers, Stellar Service Trucks, and Stellar X-Tra-Lift Systems:
Twelve (12) month warranty on parts from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) months from date of manufacture,
Twelve (12) month repair labor from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) month from date of manufacture, and
Thirty-six (36) month warranty on all Stellar Manufactured structural parts from the date recorded by Stellar as the in-service date, not to extend beyond forty-eight (48) months from date of manufacture.

Stellar Tarper Systems:
Twelve (12) month warranty on parts from the date recorded by Stellar as the in-service date, not to extend beyond twenty-four (24) months from date of manufacture and
Three (3) month repair labor from the date recorded by Stellar as the in-service date, not to extend beyond fifteen (15) month from date of manufacture.

The in-service date will be derived from the completed warranty registration card. In the event a warranty registration card is not received by Stellar, the factory ship date will be used.

Stellar's obligation under this warranty is limited to, and the sole remedy for any such defect shall be, the repair and/or replacement (at Stellar's option) of the unaltered part and/or component in question. Stellar after-sales service personnel must be notified by telephone, fax, or letter of any warranty-applicable damage within fourteen (14) days of its occurrence. If at all possible, Stellar will ship the replacement part within 24-hours of notification by the most economical, yet expedient, means possible. Expedited freight delivery will be at the expense of the owner.

Warranty claims must be submitted and shall be processed in accordance with Stellar's established warranty claim procedure. Stellar after-sales service personnel must be contacted prior to any warranty claim. A return materials authorization (RMA) account number must be issued to the claiming party prior to the return of any warranty parts. Parts returned without prior authorization will not be recognized for warranty consideration. All damaged parts must be returned to Stellar freight prepaid; freight collect returns will be refused. Freight reimbursement of returned parts will be considered as part of the warranty claim.

Warranty service will be performed by any Stellar new equipment distributor, or by any Stellar-recognized service center authorized to service the type of product involved, or by the Stellar factory in the event of a direct sale. At the time of requesting warranty service, the owner must present evidence of date of delivery of the product. The owner shall be obligated to pay for any overtime labor requested of the servicing company by the owner, any field service call charges, and any towing and/or transportation charges associated with moving the equipment to the designated repair/service provider.

All obligations of Stellar and its authorized dealers and service providers shall be voided if someone other than an authorized Stellar dealer provides other than routine maintenance service without prior written approval from Stellar. In the case repair work is performed on a Stellar-manufactured product, original Stellar parts must be used to keep the warranty in force. The warranty may also be voided if the product is modified or altered in any way not approved, in writing, by Stellar.

The owner/operator is responsible for furnishing proof of the date of original purchase of the Stellar product in question. Warranty registration is the ultimate responsibility of the owner and may be accomplished by the completion and return of the Stellar product registration card provided with the product. If the owner is not sure of registration, he is encouraged to contact Stellar at the address below to confirm registration of the product in question. This warranty covers only defective material and workmanship. It does not cover depreciation or damage caused by normal wear and tear, accident, mishap, untrained operators, or improper or unintended use. The owner has the obligation of performing routine care and maintenance duties as stated in Stellar's written instructions, recommendations, and specifications. Any damage resulting from owner/operator failure to perform such duties shall void the coverage of this warranty. The owner will pay the cost of labor and supplies associated with routine maintenance.

The only remedies the owner has in connection with the breach or performance of any warranty on the Stellar product specified are those set above. In no event will Stellar, the Stellar distributor/dealer, or any company affiliated with Stellar be liable for business interruptions, costs of delay, or for any special, indirect, incidental, or consequential costs or damages. Such costs may include, but are not limited to, loss of time, loss of revenue, loss of use, wages, salaries, commissions, lodging, meals, towing, hydraulic fluid, or any other incidental cost.

All products purchased by Stellar from outside vendors shall be covered by the warranty offered by that respective manufacturer only. Stellar does not participate in, or obligate itself to, any such warranty.

Stellar reserves the right to make changes in design or improvement upon its products without imposing upon itself the same upon its products theretofore manufactured.

This warranty will apply to all Stellar Cranes, Stellar Hooklift Hoists, Stellar Cable Hoists, Stellar Container Carriers, Stellar Service Trucks, Stellar X-Tra-Lift Systems, and Stellar Tarper Systems shipped from Stellar's factory after January 1st, 2010. The warranty is for the use of the original owner only and is not transferable without prior written permission from Stellar.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. REMEDIES UNDER THIS WARRANTY ARE LIMITED TO THE PROVISION OF MATERIAL AND SERVICES, AS SPECIFIED HEREIN. STELLAR INDUSTRIES, INC. IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Revision Date: February 2010

Document Number: 37040